



OPERATIVE PROCEDURE

O P E R A T I V E P R O C E D U R E

This book was first published in the United States of America, where it has proved of great service to surgeons and medical students alike

The few copies which reached this country were so warmly welcomed that the publishers decided to print a British edition of the book

Text and illustrations remain identical with those in the original American edition

Johnson & Johnson
(GREAT BRITAIN) LIMITED

Slough Bucks England

1944

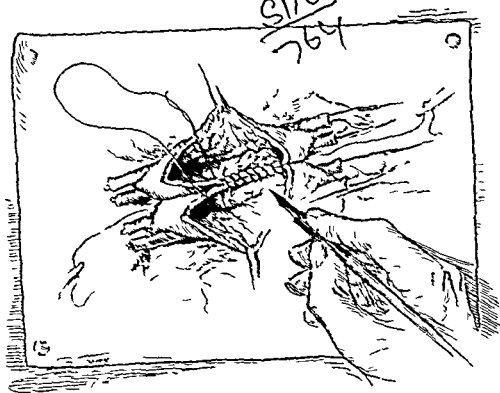
COPYRIGHT IN U S A

1939

JOHNSON & JOHNSON

Printed and made in England at the Farnham Press London

5110
764



The Origin and Function of the 'Operative Procedure' Series

*This series of plates published by Johnson & Johnson in
the leading surgical journals of the United States of
America was prepared in collaboration with the staff of
Surgeons Gynecology and Obstetrics*

THE SURGEON who casually views or carefully studies these illustrations will realize that they are not to be found elsewhere in medical or surgical literature. As originals, it is understood that they have to be carefully prepared but the amount of effort expended in selecting the subject and then later selecting the important steps to be illustrated may not be comprehended as quickly.

There is probably no branch of science or art which has given more evidence of progress in the last two decades than the science of surgical technique. The perfection of older methods and originality in new methods have given to the world a mass of material which is worthy of careful immediate study and preservation for future reference.

The selection of the subjects in this series was made with the help of several surgeons whose practice and experience enabled the pointing out of not only the most timely technique but likewise the outstanding steps. In this way the artist was furnished with material from which he might accurately illustrate approved technique in a new and original manner.

LIGATURE DEPARTMENT

JOHNSON & JOHNSON

SLOUGH BUCKS

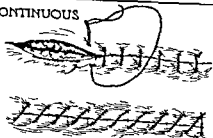
SUTURE TECHNIQUE (NO 1)

PURSE STRING



Tied

CONTINUOUS



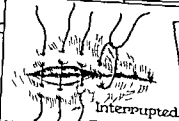
Two types

INTERRUPTED



All needles in position

LEMBERT



Interrupted

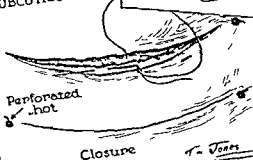


Continuous

CUSHING



SUBCUTICULAR

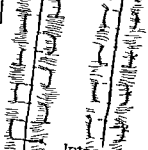


Perforated hot

Closure

T. Jones

MATTRESS



Continuous

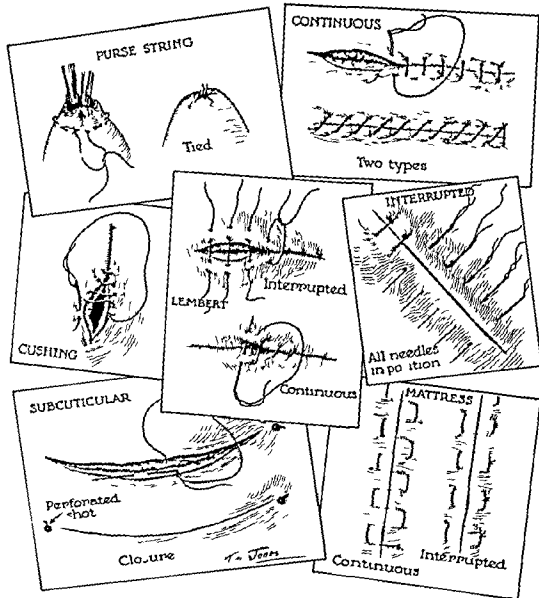
Interrupted

There is probably no branch of science or art which has given more evidence of progress in the last two decades than the science of surgical technique. The perfection of older methods and originality in new methods have given to the world a mass of material which is worthy of careful immediate study and preservation for future reference.

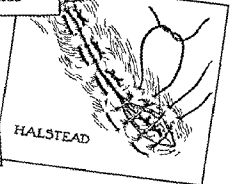
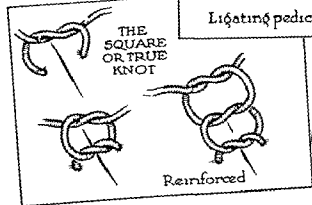
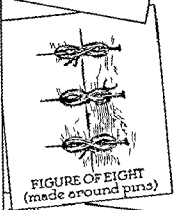
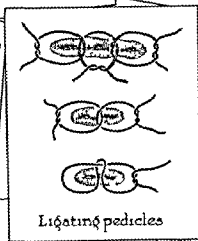
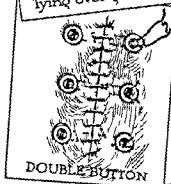
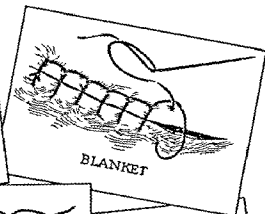
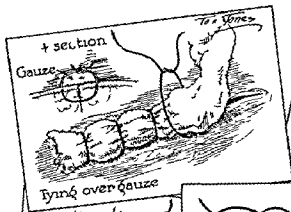
The selection of the subjects in this series was made with the help of several surgeons whose practice and experience enabled the pointing out of not only the most timely technique but likewise the outstanding steps. In this way the artist was furnished with material from which he might accurately illustrate approved technique in a new and original manner.

LIGATURE DEPARTMENT
JOHNSON & JOHNSON
SLOUGH BUCKS

SUTURE TECHNIQUE (NO 1)

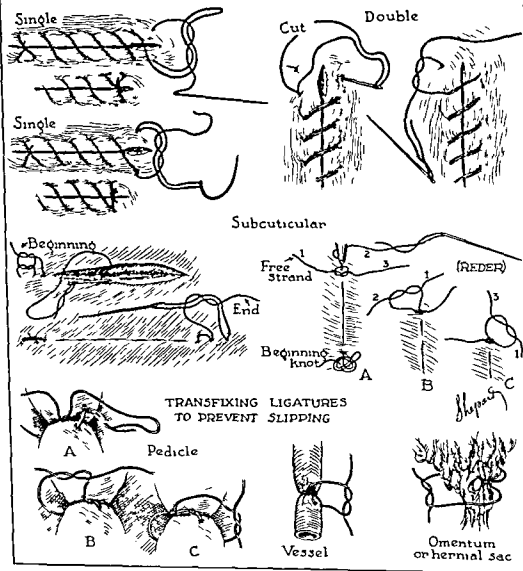


SUTURE TECHNIQUE (NO 2)

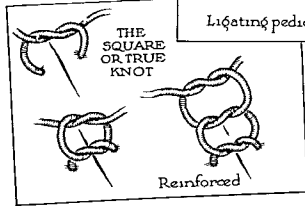
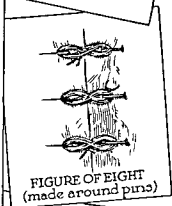
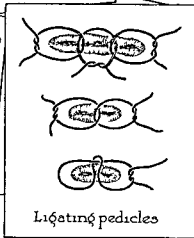
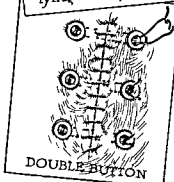
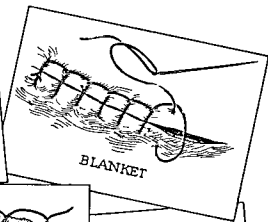
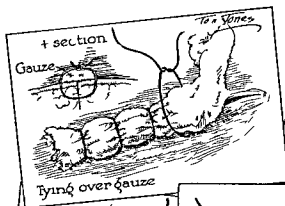


SUTURE TECHNIQUE (NO 3)

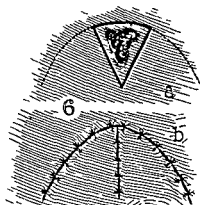
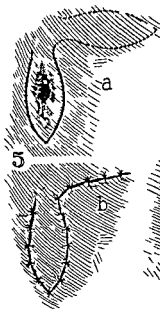
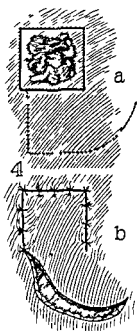
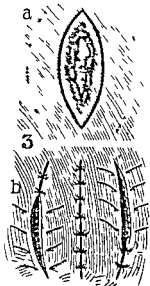
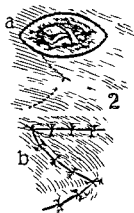
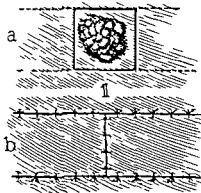
METHODS FOR SECURING THE ENDS OF CONTINUOUS SUTURES



SUTURE TECHNIQUE (NO 2)



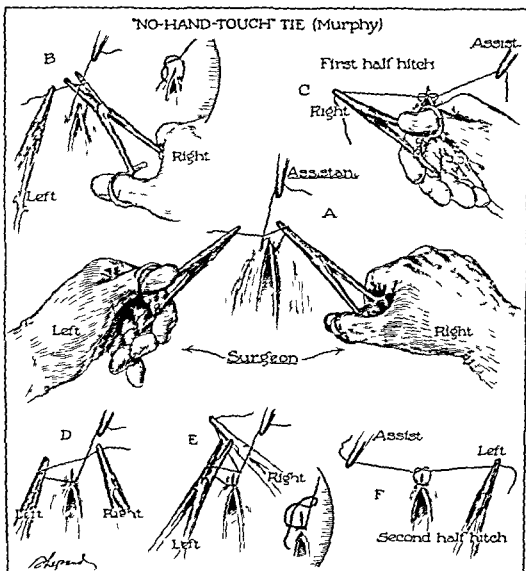
CLOSURE OF SKIN DEFECTS



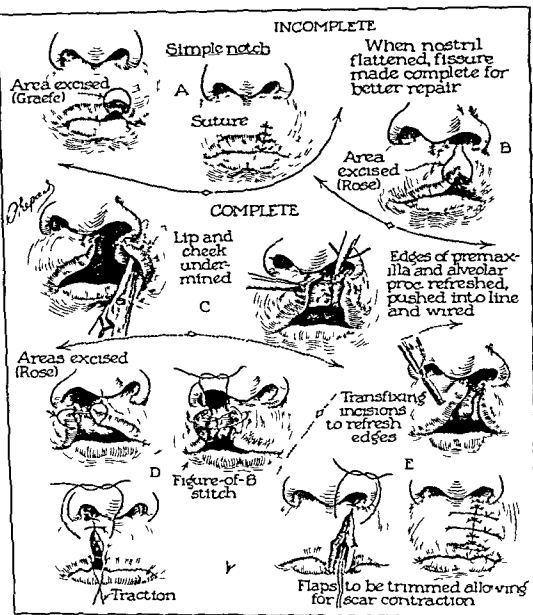
Shepard
+ Tom Jones
Modified
Buckham

SUTURE TECHNIQUE (NO 4)

'NO-HAND-TOUCH' TIE (Murphy)



OPERATIONS FOR HARELIP—SINGLE CLEFT



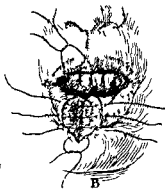
RESECTION FOR EPITHELIOMA OF LIP

To Jones

EARLY CASE



Incision

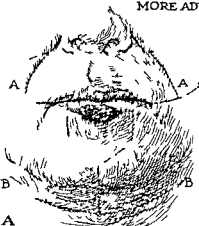


Sutures in position
(Stitches in mucous
membrane tied first)

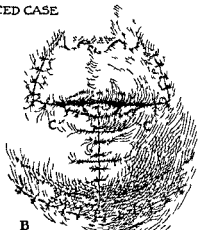
C
Sutures tied (Note full-
ness in center to prevent
subsequent notching)



MORE ADVANCED CASE

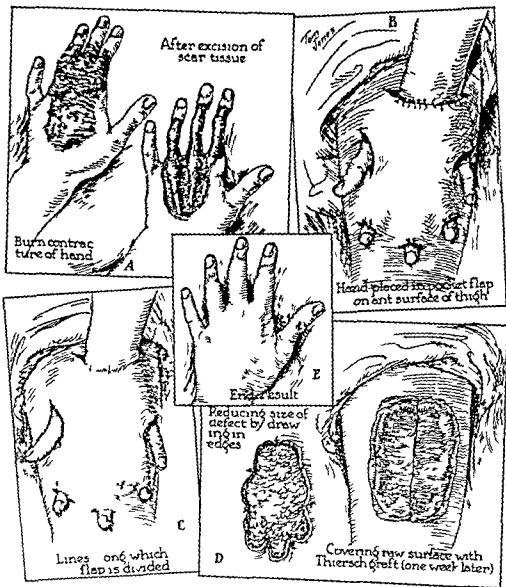


Incisions AA Triangles of skin
removed to permit reconstruc-
tion of lower lip BB Incision
for removal of lymph nodes

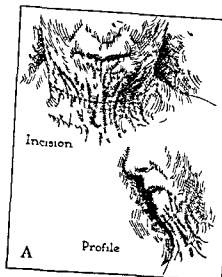


Operation completed Note
reconstructed vermilion
border CC of mucous
membrane of cheek

SKIN GRAFTING FOR BURN CONTRACTURE



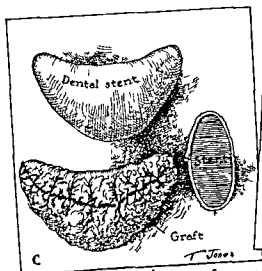
SKIN GRAFTING—INLAY GRAFTS



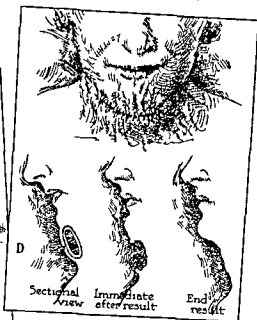
Burn contracture of neck



Raw surface resulting from simple division of scar and freeing of tension



Graft with raw surface outward wrapped about mold of dental stent



Graft covered mold buried in raw surface

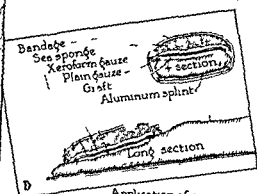
SKIN GRAFTING—FREE FULL THICKNESS GRAFTS



Extent of raw surface resulting from excision of scar

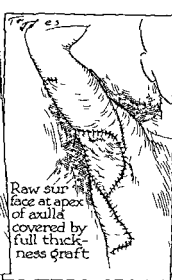
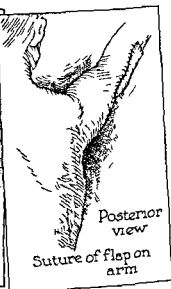


Suture of graft completed with fine sutures

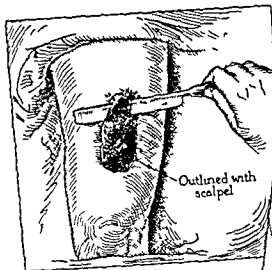


Application of pressure dressing over graft

TREATMENT OF BURN CONTRACTURE OF AXILLA



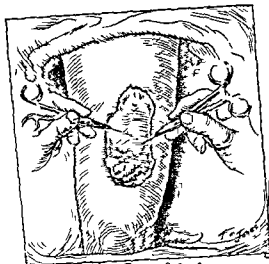
SKIN GRAFTING—SPLIT GRAFTS



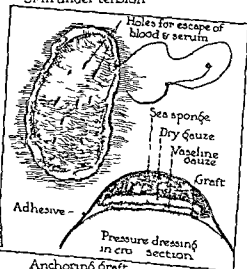
Excision of granulation tissue from raw area



Cutting of graft
Skin under tension

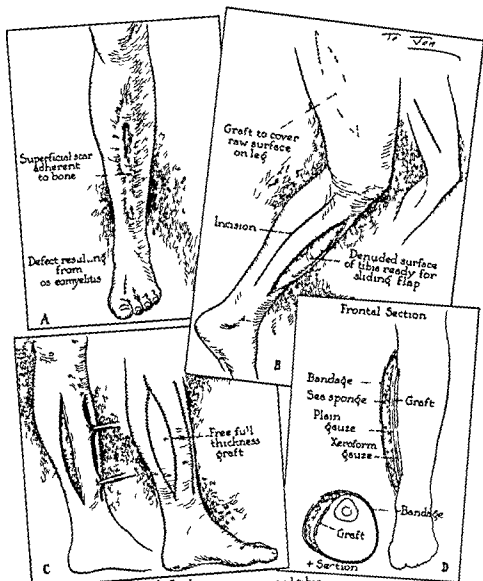


Teasing graft into position with needles



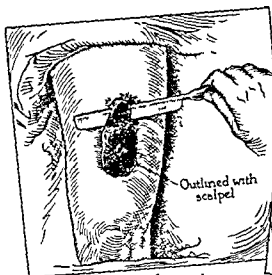
Anchoring graft with fine skin suture

FULL THICKNESS GRAFT WITH SLIDING FLAP



Flap shifted to cover exposed tibia
Resulting raw surface covered by graft

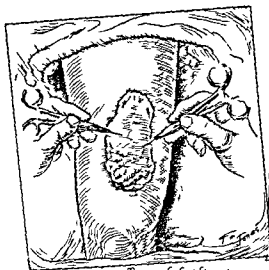
SKIN GRAFTING—SPLIT GRAFTS



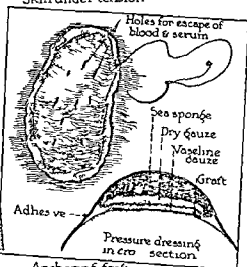
Excision of granulation tissue from raw area



Cutting of graft skin under tension

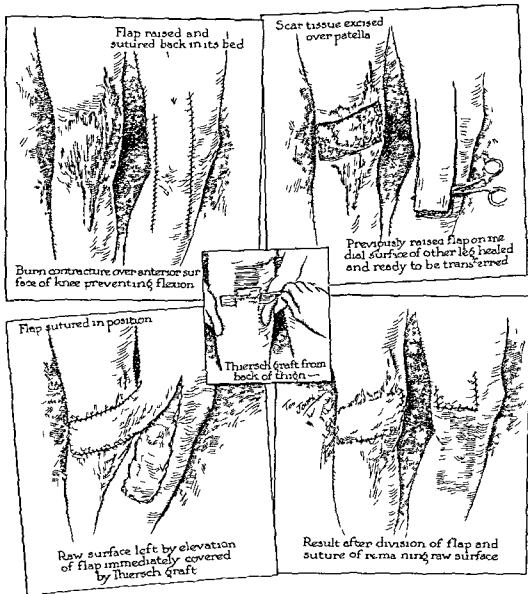


Teasing graft into position with needles



Anchoring graft with fine skin suture

DELAYED PEDICLED FLAP

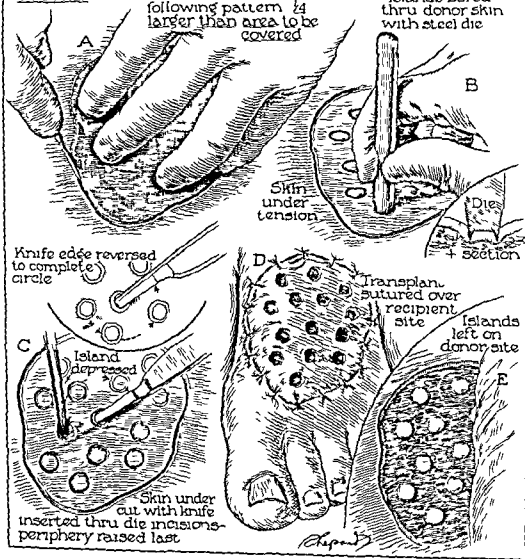


SKIN GRAFTING—SIEVE GRAFT (NO 1)

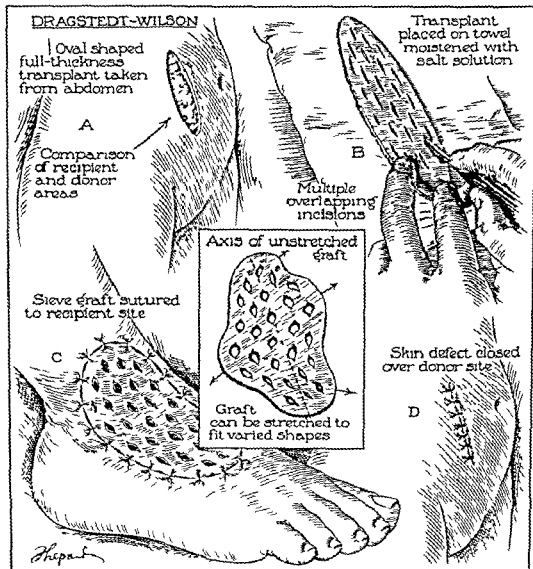
DOUGLAS

Donor skin incised following pattern $\frac{1}{4}$ larger than area to be covered

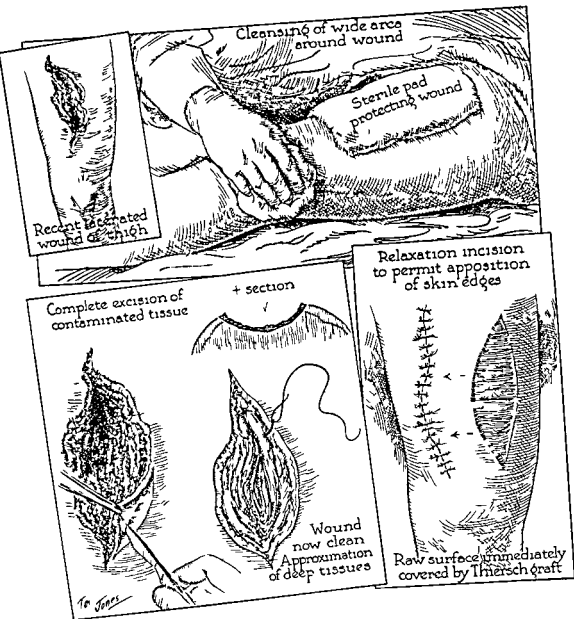
Islands bored thru donor skin with steel die



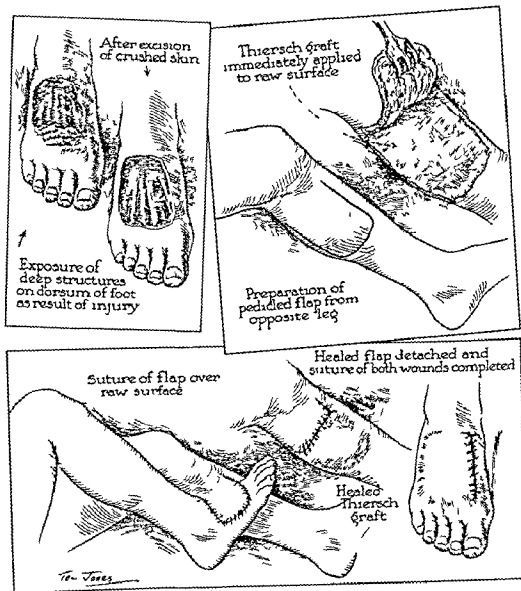
SKIN GRAFTING—SIEVE GRAFT (NO 2)



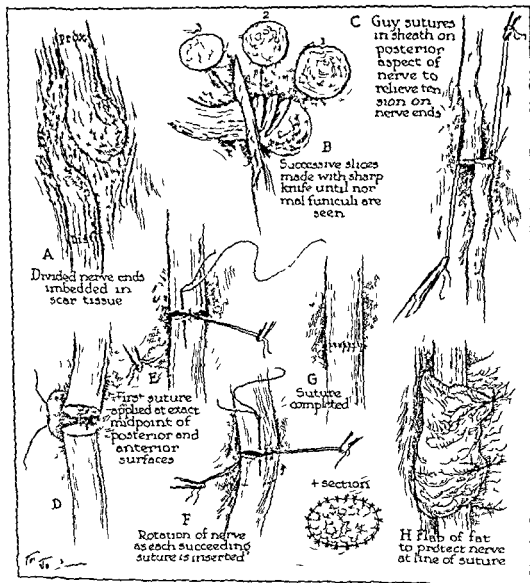
IDEAL TREATMENT OF LACERATED WOUND



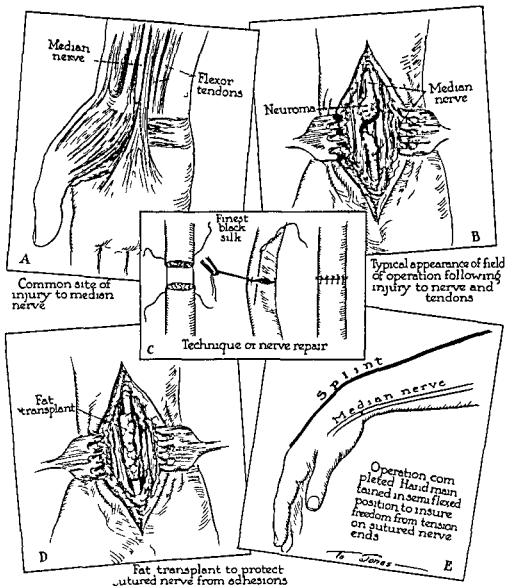
IMMEDIATE TREATMENT OF CRUSHING INJURY OF FOOT



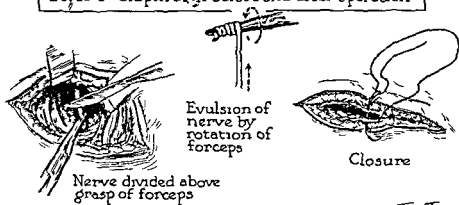
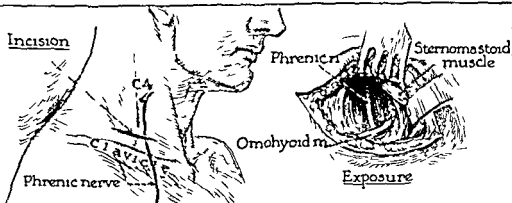
TECHNIQUE OF NERVE SUTURE



NERVE SUTURE

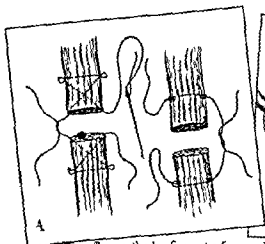


PHRENIC NEURECTOMY

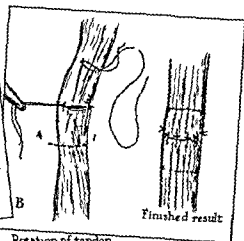


Ten Jones

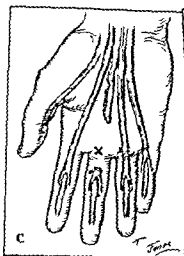
TENDON SUTURES



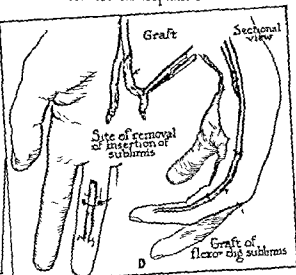
Two methods of inserting stay sutures in divided tendons



Rotation of tendon to permit insertion of sutures for accurate coaptation

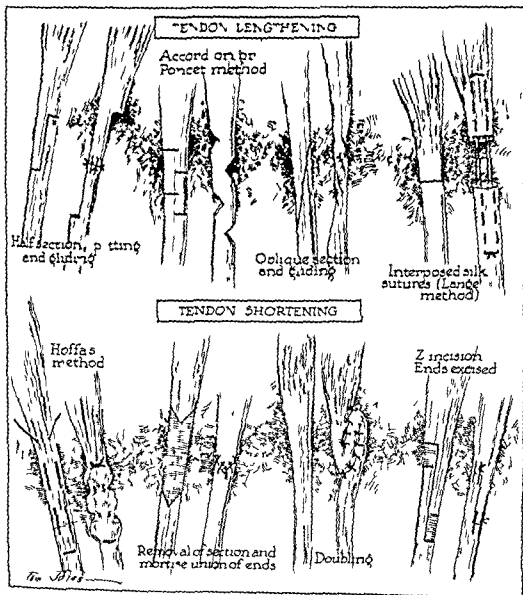


A common site (x) of tendon injury with resulting retraction of tendon ends

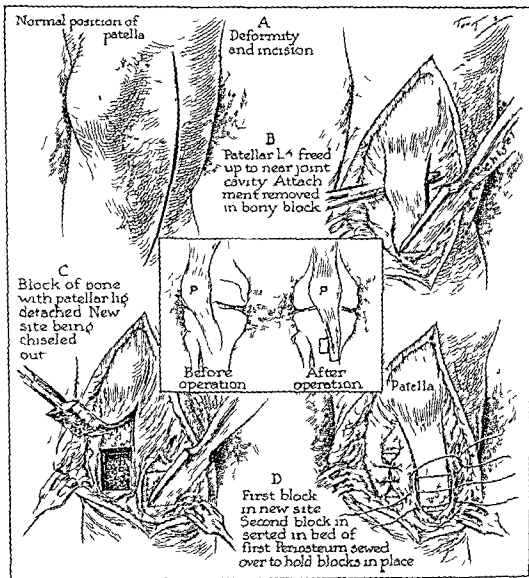


Technique of repair (Finger semi flexed)

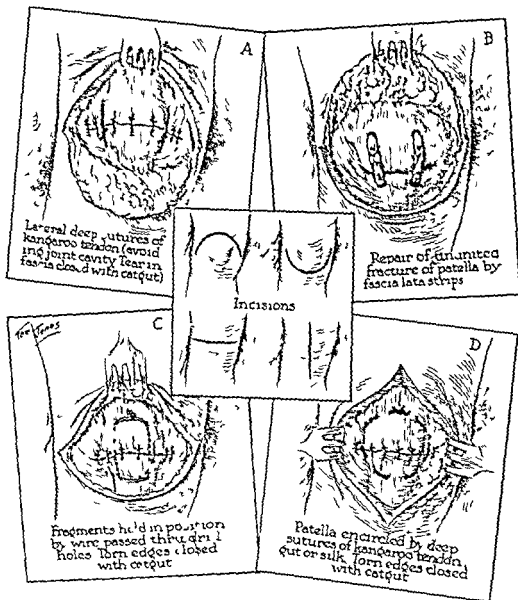
TENDON LENGTHENING AND SHORTENING



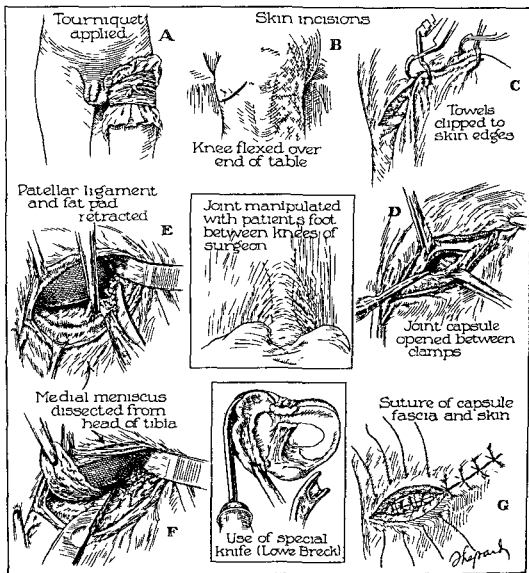
REPAIR OF RECURRENT DISLOCATION OF PATELLA



REPAIR OF FRACTURED PATELLA

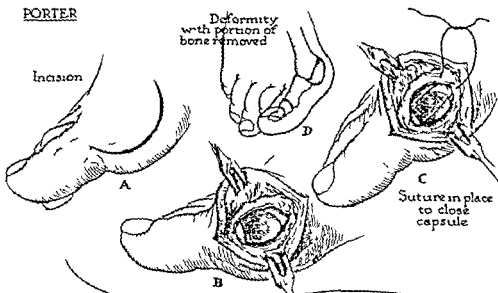


REMOVAL OF SEMILUNAR CARTILAGE

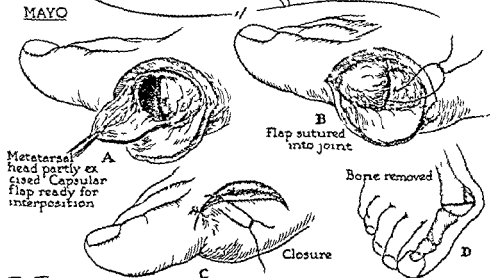


OPERATIVE TREATMENT OF BUNIONS

PORTER

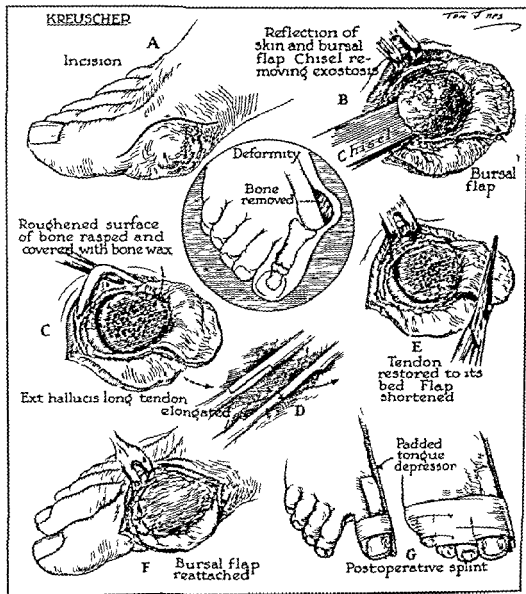


MAYO

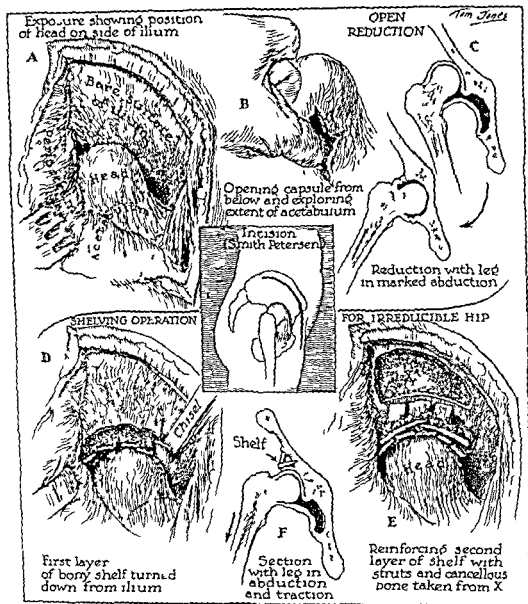


To items —

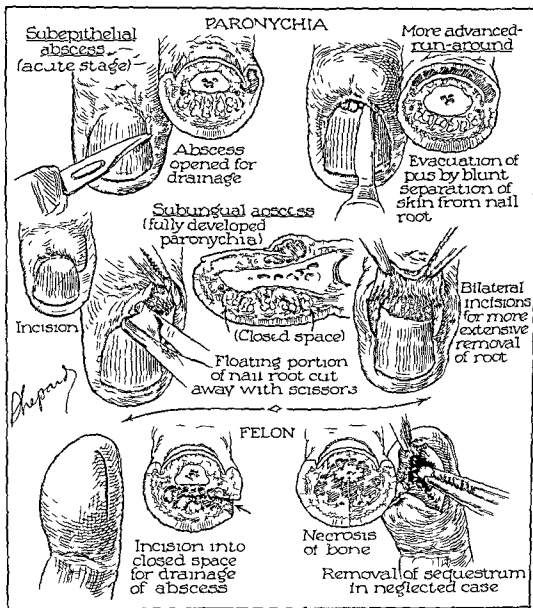
OPERATIVE TREATMENT OF BUNIONS (NO 2)



OPERATION FOR CONGENITAL DISLOCATED HIP



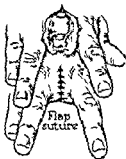
SURGICAL TREATMENT FOR PARONYCHIA AND FELON



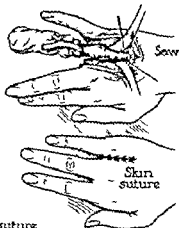
AMPUTATION OF THE DIGITS

METACARPOPHALANGEAL DISARTICULATION AND AMPUTATION PROXIMAL TO THE METACARPAL HEAD

Incisions



Flap suture



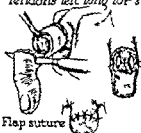
Skin suture

INTERPHALANGEAL DISARTICULATION

Rubber band tourniquet



Tendons left long for suture



Flap suture



Amputation of a phalanx: Median and lateral incisions with long anterior flap

DISARTICULATION OF THE TOES



Amputation of the five toes

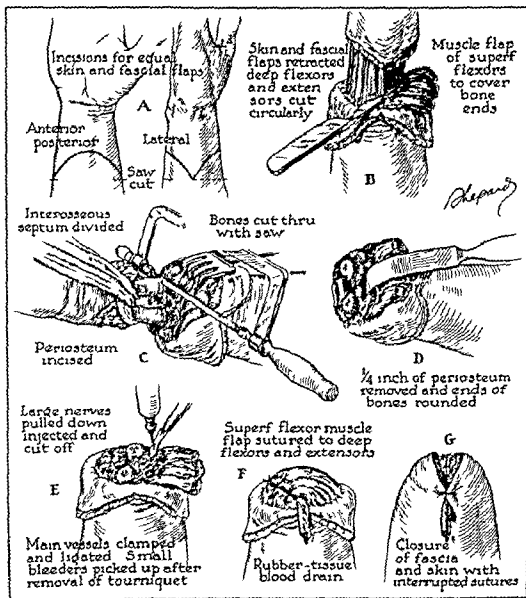


Suture of skin flap

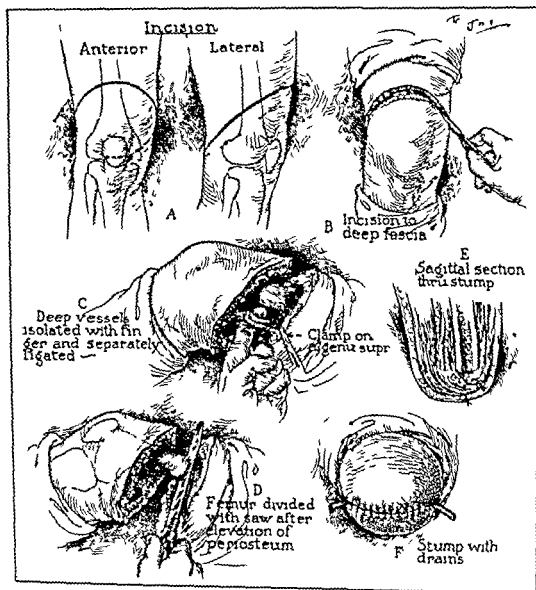


Incisions for removal of individual toes

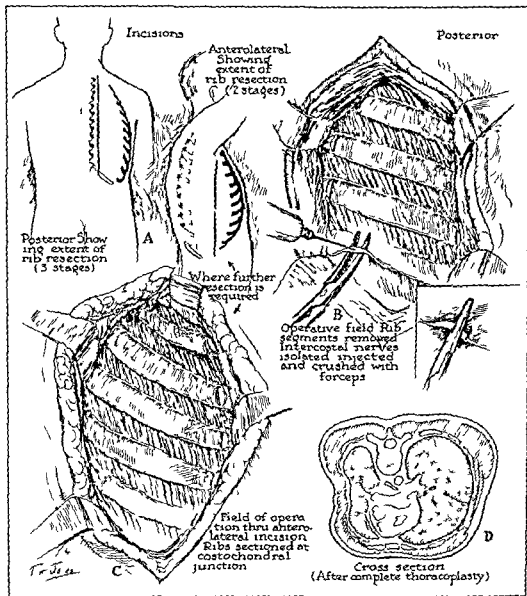
AMPUTATION OF FOREARM



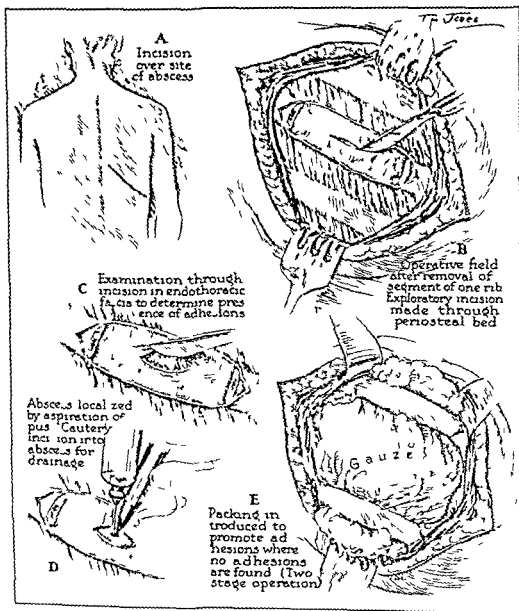
AMPUTATION FOR GANGRENE OF LOWER EXTREMITY



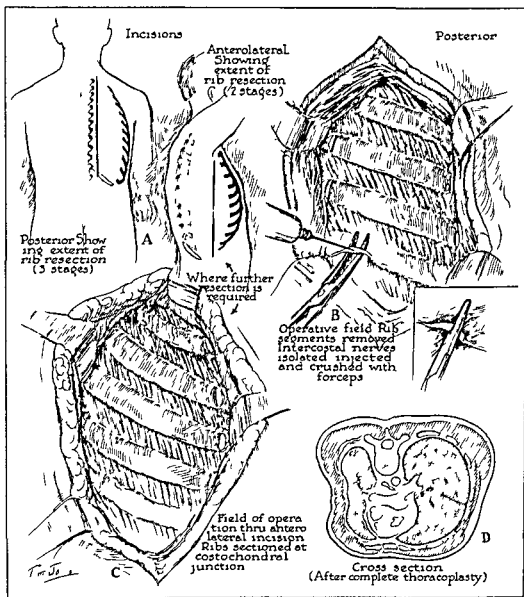
THORACOPLASTY



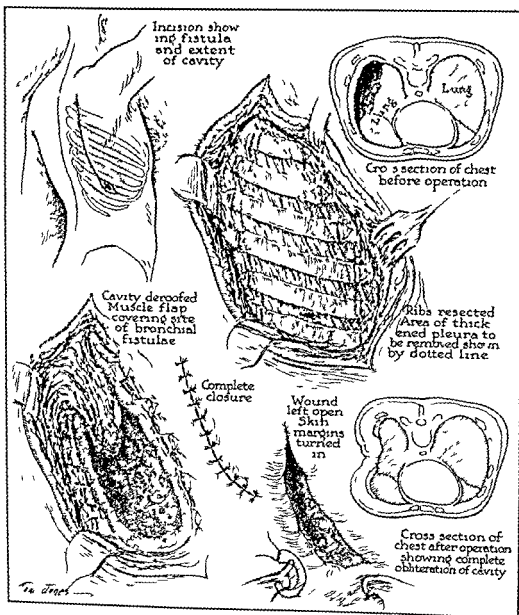
SURGICAL TREATMENT OF LUNG ABSCESS



THORACOPLASTY

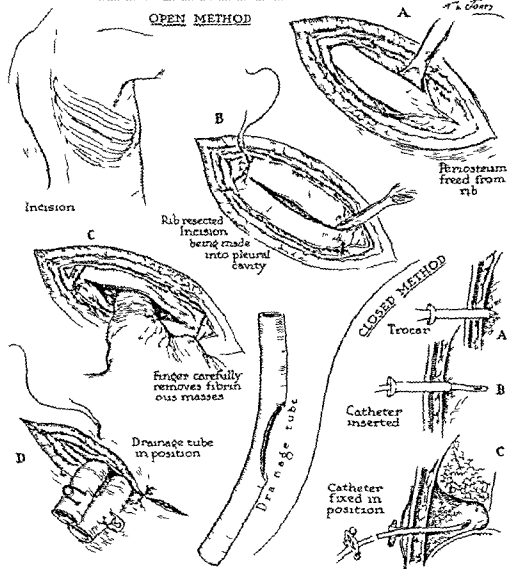


SURGICAL TREATMENT OF ACUTE EMPYEMA

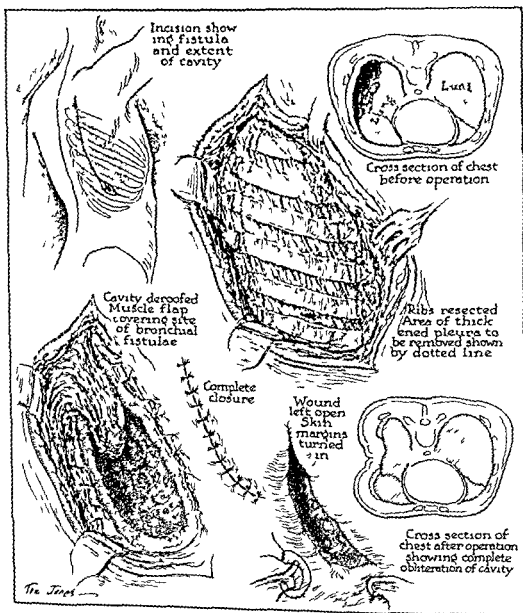


SURGICAL TREATMENT OF ACUTE EMPYEMA

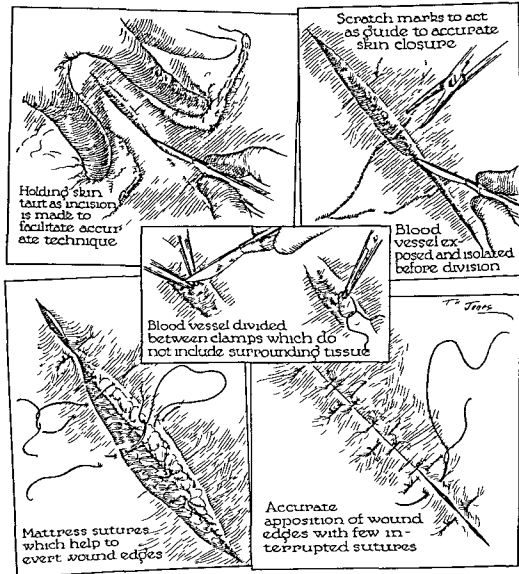
OPEN METHOD



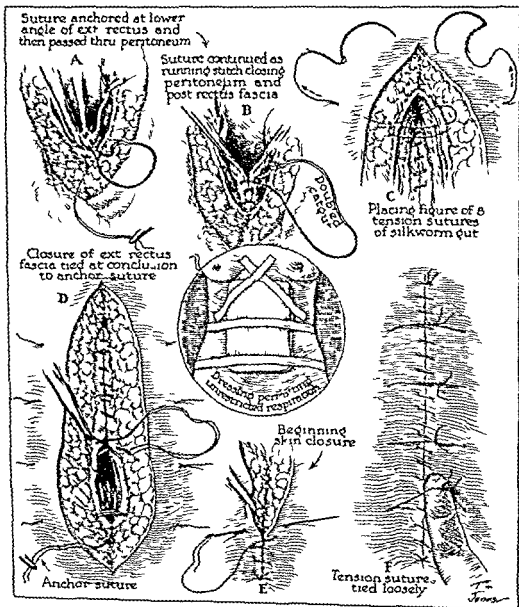
SURGICAL TREATMENT OF ACUTE EMPYEMA



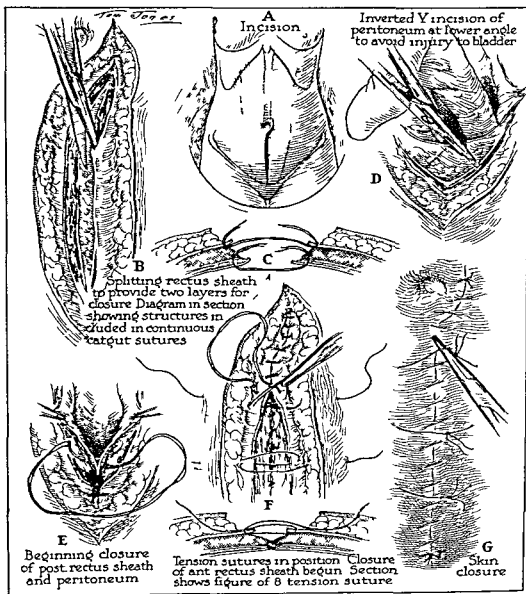
INCISION AND CLOSURE OF WOUNDS



CLOSURE OF RECTUS INCISION

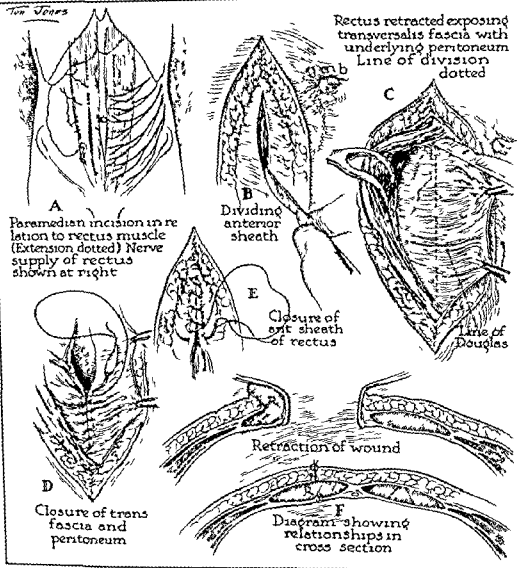


THE LOW MIDLINE INCISION



PARAMEDIAN INCISION FOR LAPAROTOMY

Tom Jones

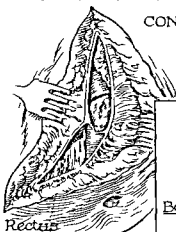
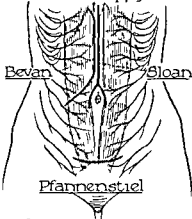


ABDOMINAL INCISIONS

CONSERVING INNERVATION OF THE RECTI

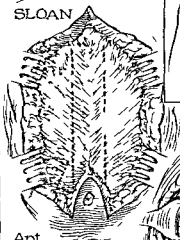
BEVAN
(Gall bladder on right
side spleen on left)

Initial incisions and
nerve supply



Rectus

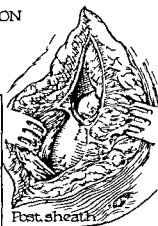
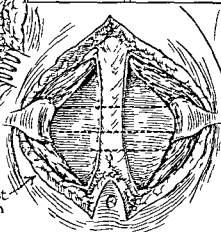
SLOAN



Ant
sheath

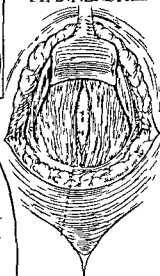
Optional
levels post
sheath

Shepard



Post. sheath

PFANNENSTIEL

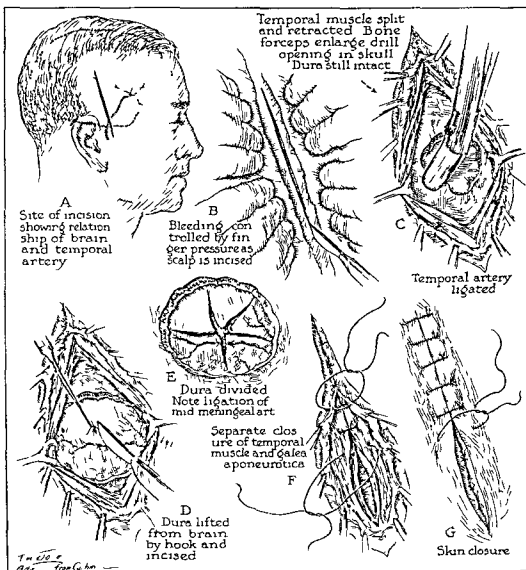


Transversalis
fascia

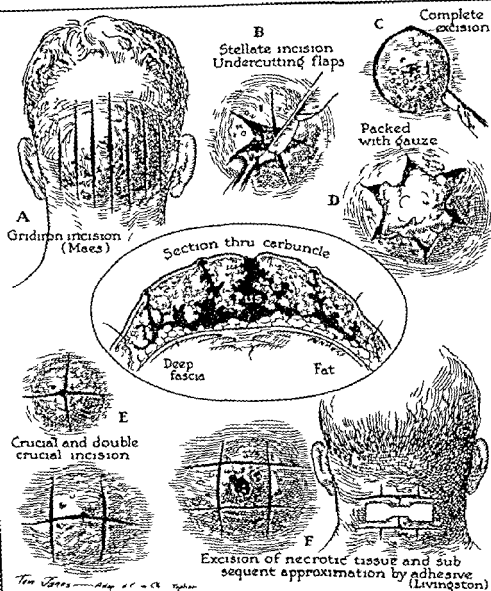
OPERATION FOR TORTICOLLIS



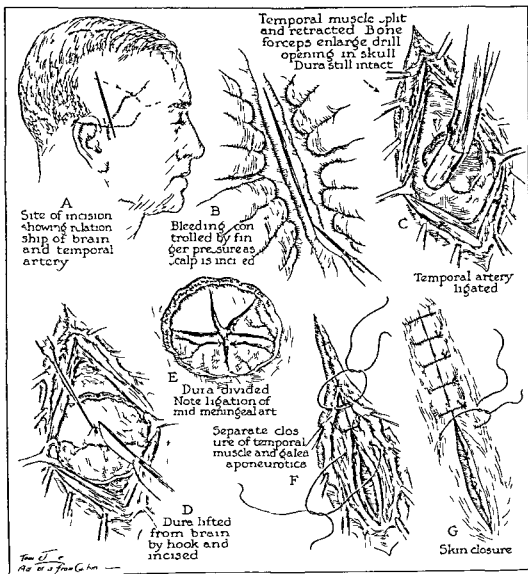
SUBTEMPORAL DECOMPRESSION



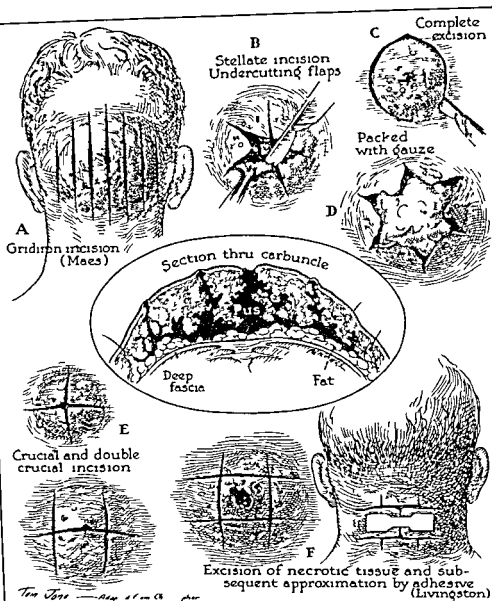
SURGICAL TREATMENT OF CARBUNCLE



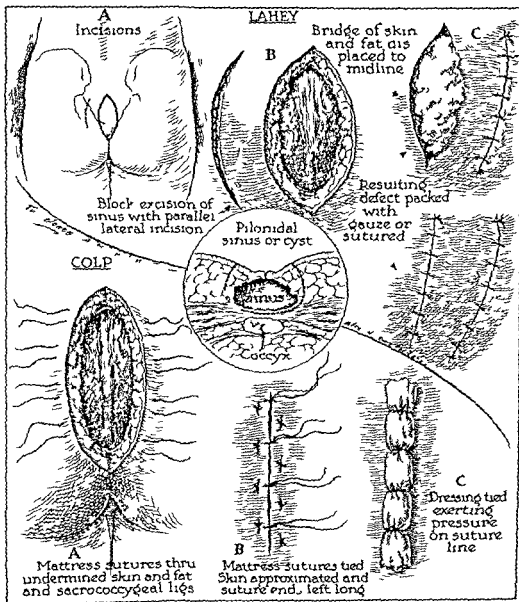
SUBTEMPORAL DECOMPRESSION



SURGICAL TREATMENT OF CARBUNCLE

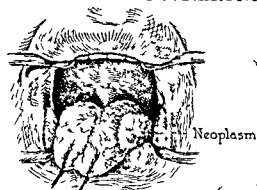


OPERATIVE TREATMENT OF PILONIDAL SINUS

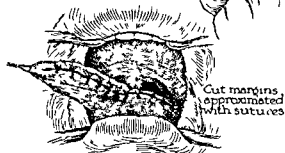
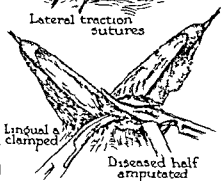
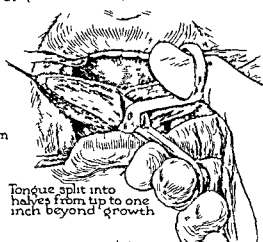


PARTIAL RESECTION OF THE TONGUE

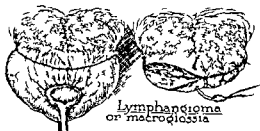
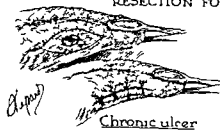
RESECTION OF LATERAL HALF OF TONGUE FOR MALIGNANCY (WHITEHEAD)



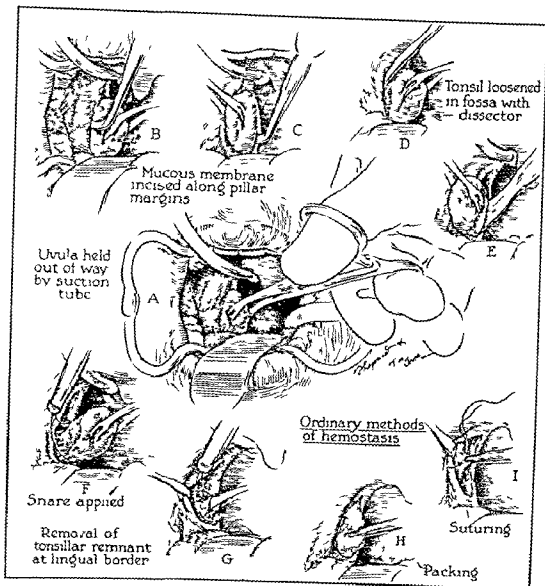
Lateral traction
sutures



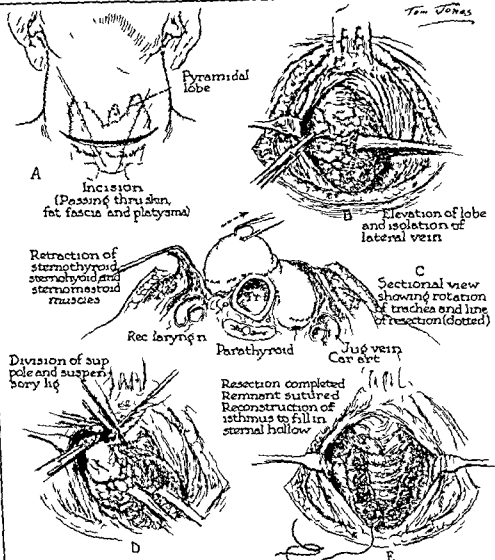
RESECTION FOR NON MALIGNANCY



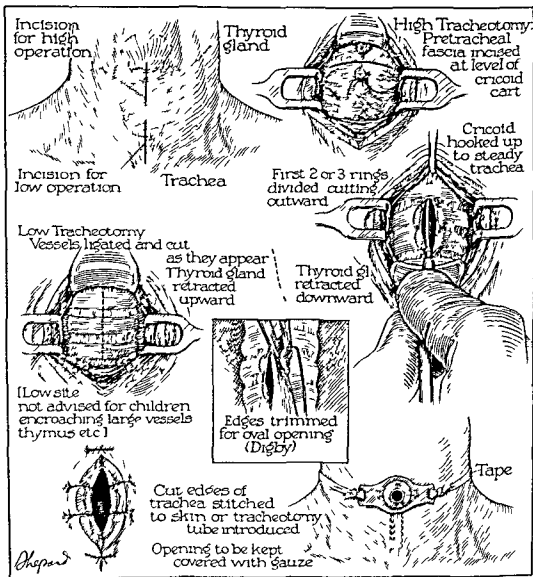
TONSILLECTOMY



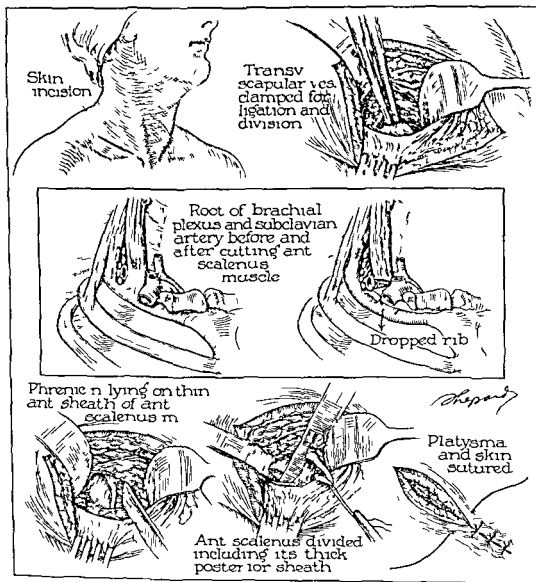
THYROIDECTOMY



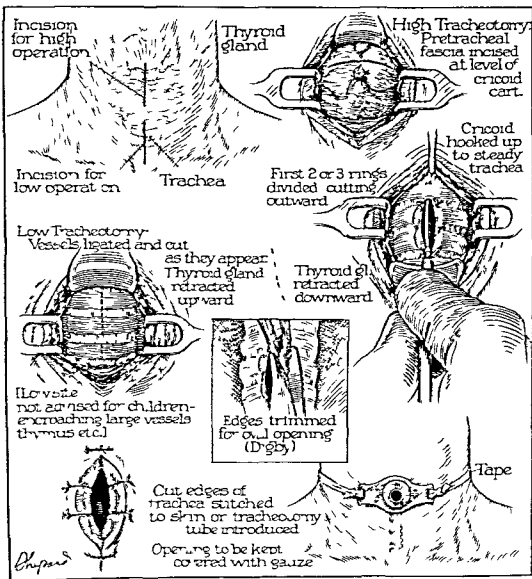
TRACHEOTOMY



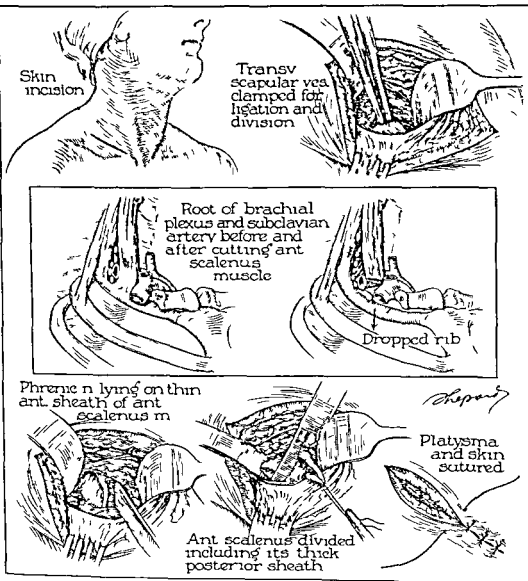
SCALenus ANTICUS SYNDROME



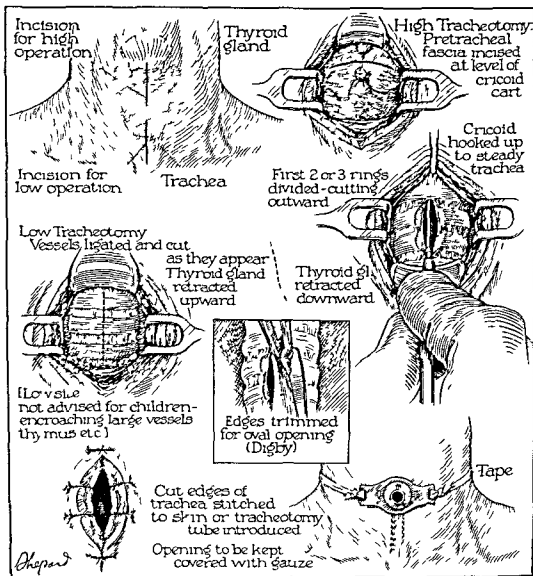
TRACHEOTOMY



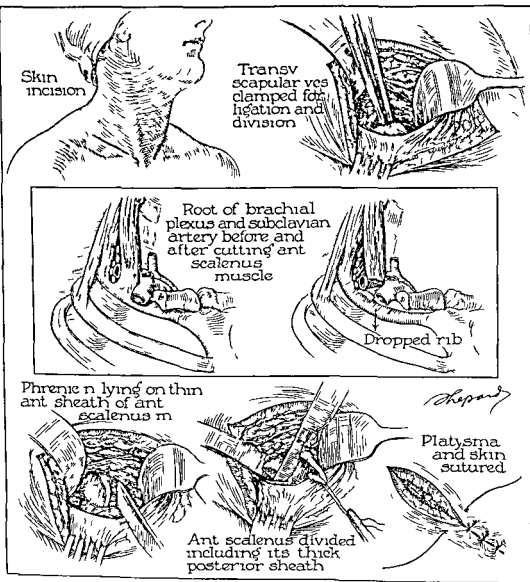
SCALENUS ANTICUS SYNDROME



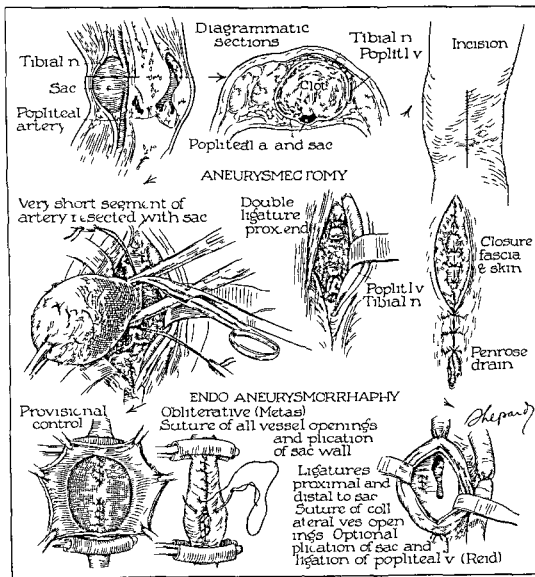
TRACHEOTOMY



SCALENUS ANTICUS SYNDROME



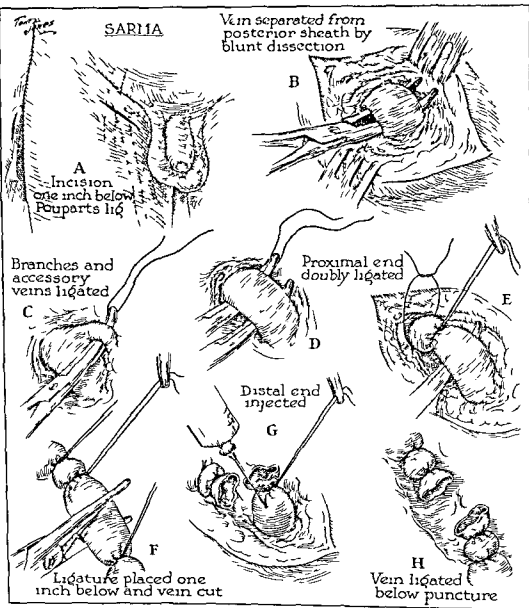
POPLITEAL ANEURYSM



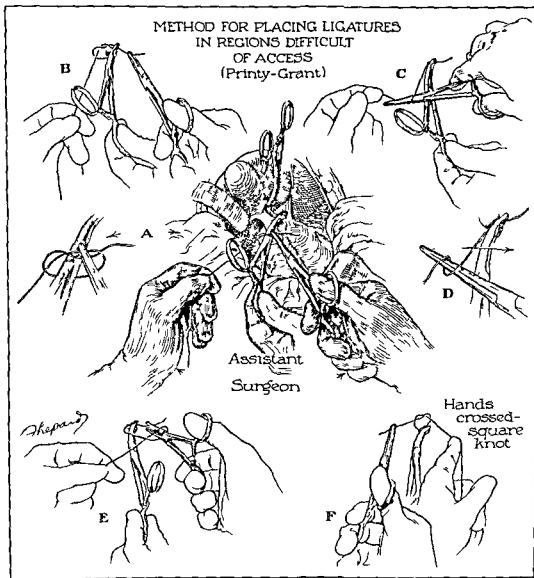
LIGATION OF VARICOSE SAPHENOUS VEIN

SARMA

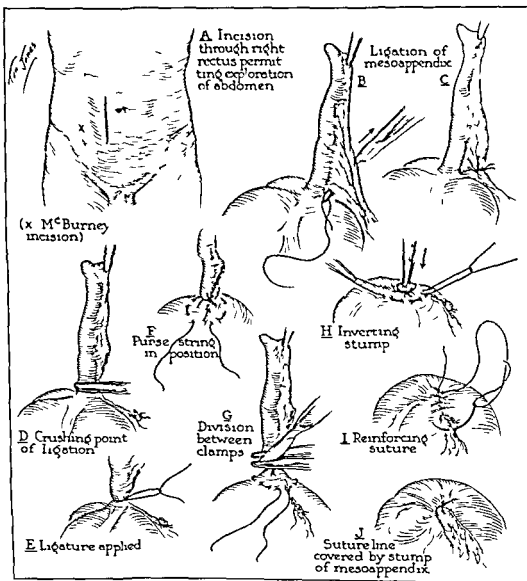
Vein separated from posterior sheath by blunt dissection



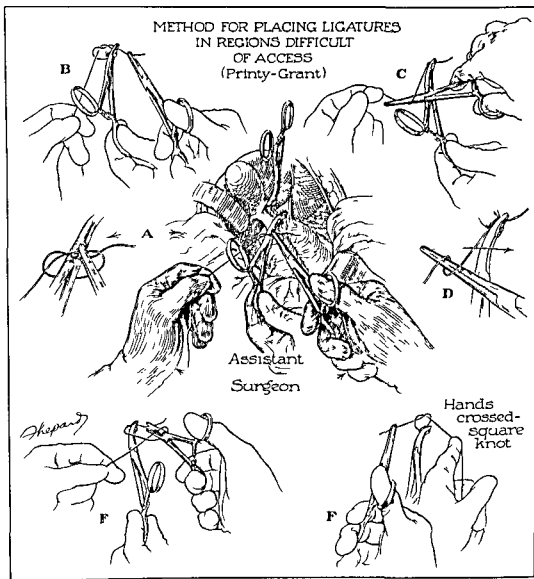
LIGATURE TECHNIQUE



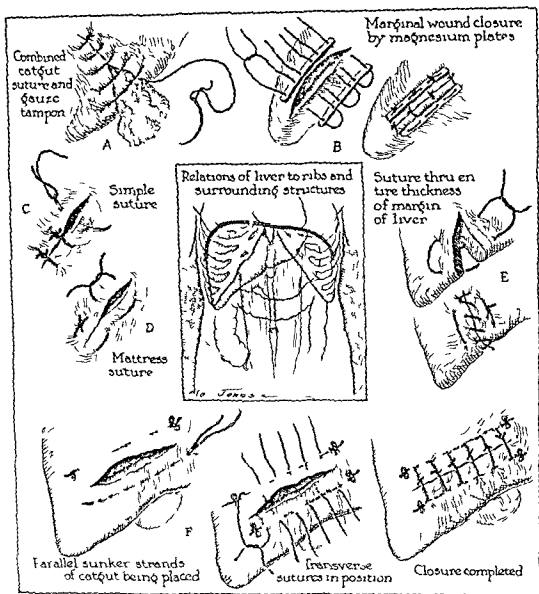
APPENDECTOMY



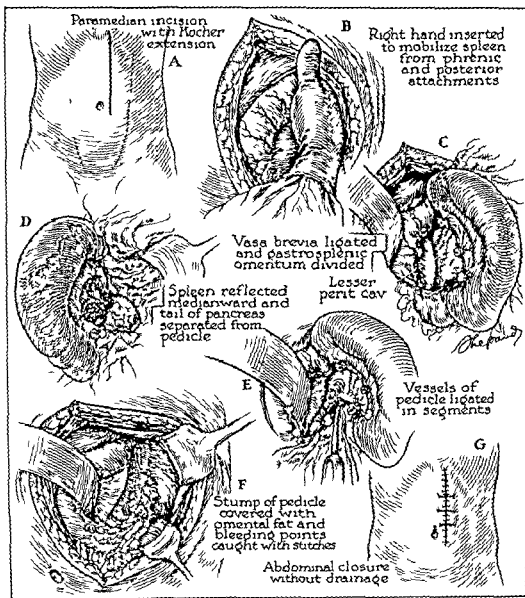
LIGATURE TECHNIQUE



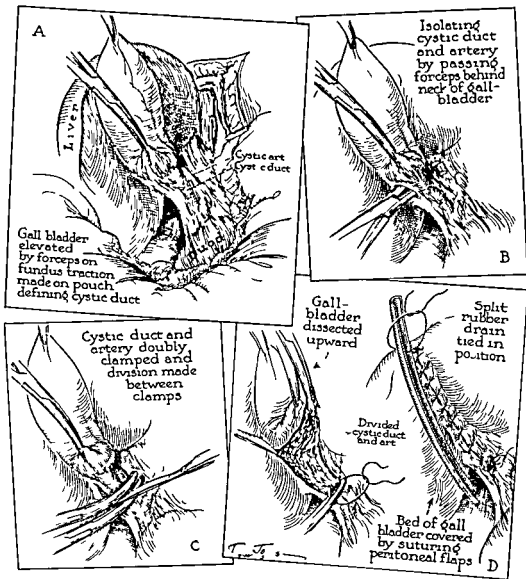
LIVER SUTURES



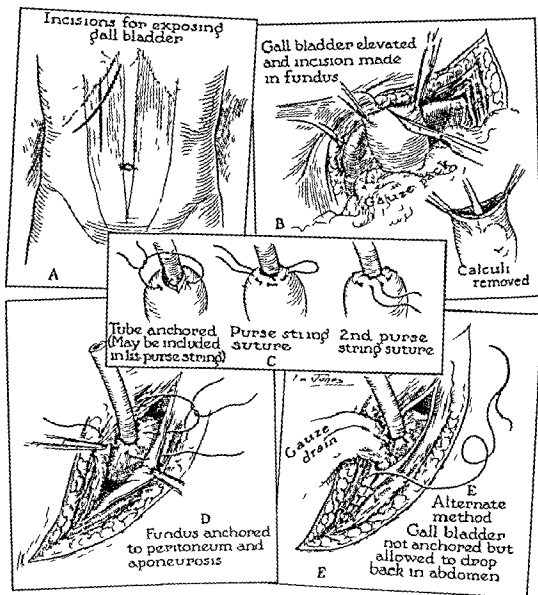
SPLENECTOMY



CHOLECYSTECTOMY



CHOLECYSTOSTOMY



OPERATIONS ON BILIARY TRACT (No 2)

HEPATICODUODENOSTOMY

Direct
Gatewood's
case

Posterior and lateral
sutures placed
duodenum & hepatic
duct incised

Modified Direct
(W J Mayo)

Flap from
crescent-
shaped
incision

Post and
latr. sutures

T tube

Ant sutures

Plastic
(Walton)

Flap sutured
to liver capsule

Indirect
(Jenckel)

Duod
opening
closed
around
tube

Long
flap

Witzel
duoden-
ostomy

Exposed tube
to be covered
with adjacent
tissues & omentum

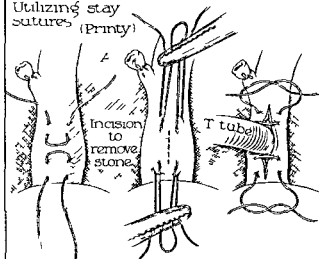
Flap sutured over tube
to duodenum & duct

(Tube removed after
epithelial outgrowth has
lined new canal)

OPERATIONS ON BILIARY TRACT (No 1)

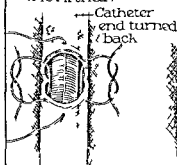
SUTURE OF THE COMMON DUCT AFTER REMOVAL OF STONE

Utilizing stay
sutures (Prinny)



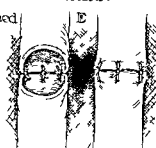
REPAIR OF INJURIES TO DUCT (with or without drainage)

D
Partly severed
(Mc Arthur)



Catheter extends
into duodenum

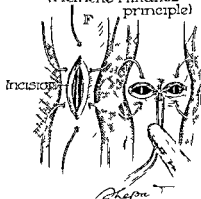
Completely severed
(Kehr)



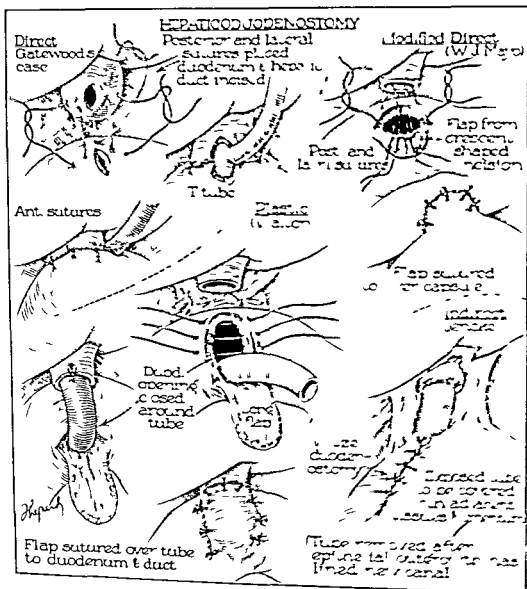
suture of
posterior
wall

suture of
anterior
wall

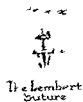
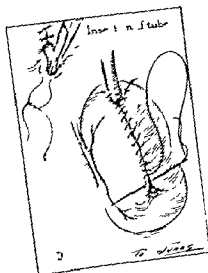
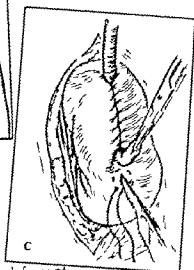
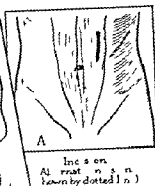
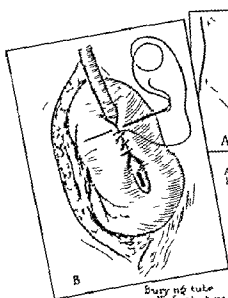
Partial stricture
(Heineke Mikulicz
principle)



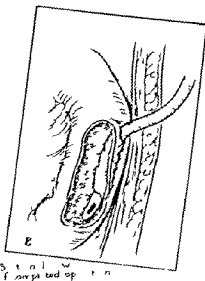
OPERATIONS ON BILIARY TRACT (No 2)



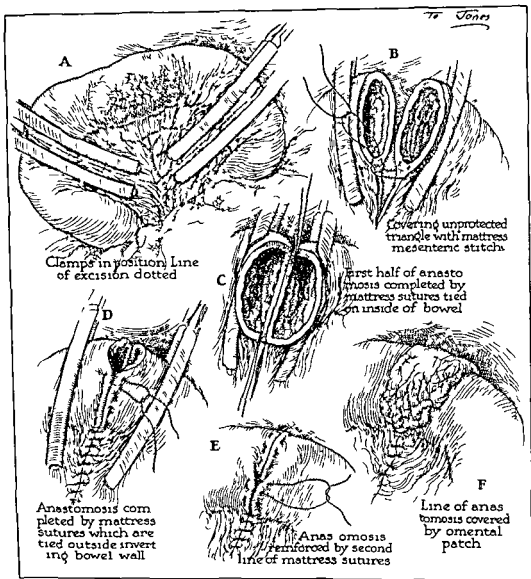
ENTEROSTOMY



Comparison of
the by corn
& serosa
A row of
sutures at the
pylorus



END TO END ENTERO ENTEROSTOMY (DYAS)



GASTRODUODENOSTOMY (FINNEY'S TECHNIQUE)

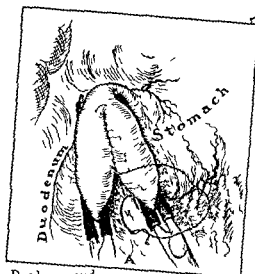


Diagram A: Duodenum and stomach clamped. First line of sutures being placed. Incision shown by dotted line.

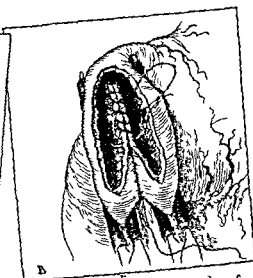


Diagram B: First or posterior line of sutures completed. Incision being placed.

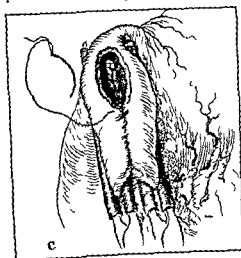


Diagram C: Anterior tier of sutures nearly completed.

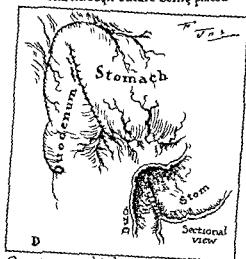
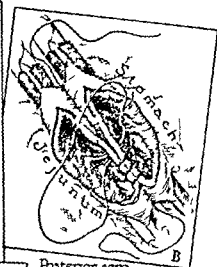
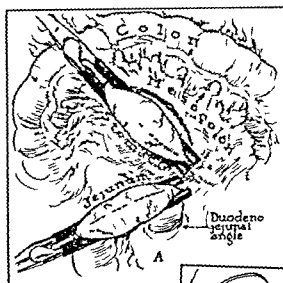


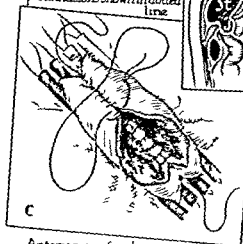
Diagram D: Operation completed. Outer line of seromuscular sutures seen.

POSTERIOR GASTROJEJUNOSTOMY

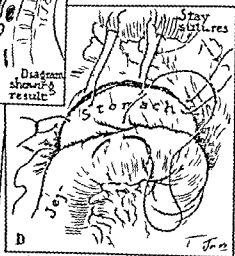
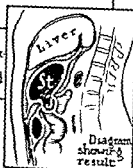


Stomach drawn thru slit meso colon, clamped & ready for approximation with fold of jejunum. Proposed incisions shown in dotted line.

Posterior seromuscular suture placed
Posterior marginal suture being placed



Anterior marginal suture



Anterior seromuscular suture

GASTRODUODENOSTOMY (FINNEY'S TECHNIQUE)

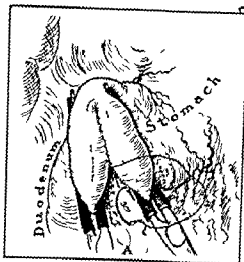


Diagram A: Duodenum and stomach clamped. First line of sutures being placed. Incision shown by dotted line.



Diagram B: First or posterior line of sutures completed. Inner through and through suture being placed.

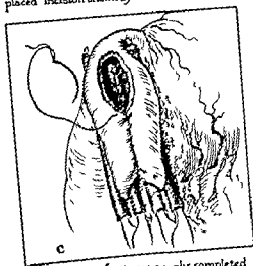


Diagram C: Anterior tier of sutures nearly completed.

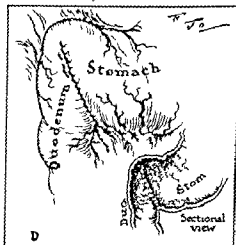
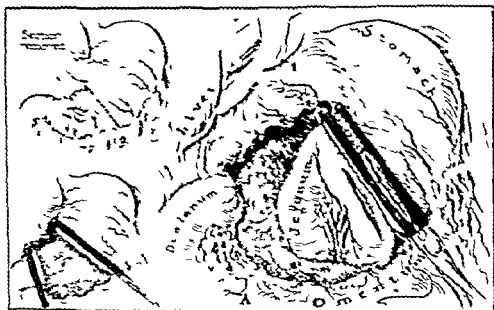


Diagram D: Operation completed. Outer line of seromuscular sutures seen.

PARTIAL RESECTION OF STOMACH (POLY A)



The duodenum has been closed by invagination. Upper 2/3 of stomach end closed by suture. Anastomosis between top of jejunum and lower 1/3 of stomach opening begun.

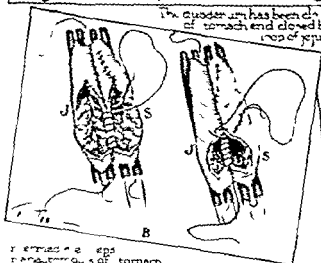


Diagram A shows the stomach end closed by suture. Diagram B shows the stomach end closed by suture, with the jejunum inserted into the stomach.

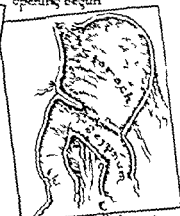
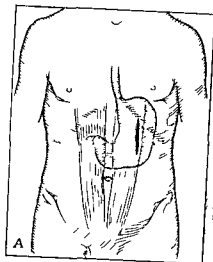
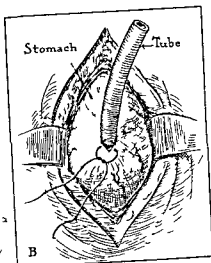


Diagram showing finished result in section.

GASTROSTOMY (STAMM METHOD)



A
Incision (Alternate incision shown by dotted line)



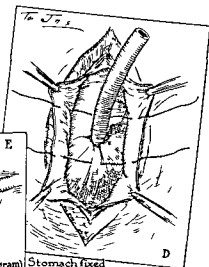
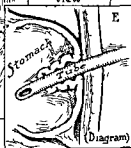
B
Tube fixed in stomach wall by single stitch

Penetration



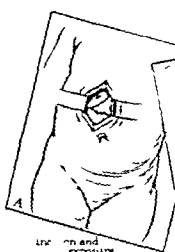
C
First purse string suture tied. Two others placed

Sectional view

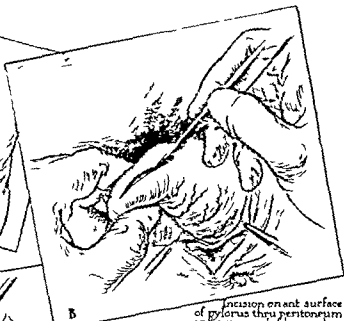


D
Stomach fixed to ant abdominal wall

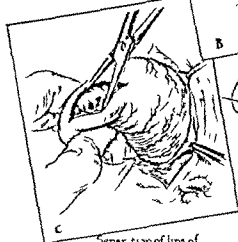
RAMMSTEDT OPERATION FOR PYLORIC STENOSIS



A
Incision and exposure



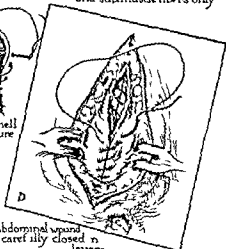
B
Incision on ant surface of pylorus thru peritoneum and superficial fibers only



C
Separation of lips of incision allowing muscular protrusion

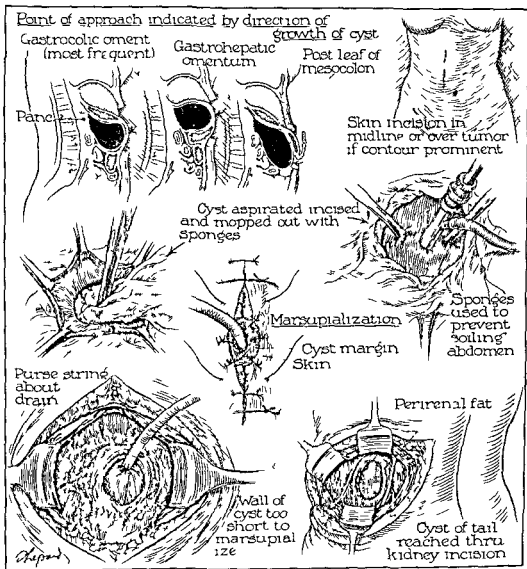


Connell suture

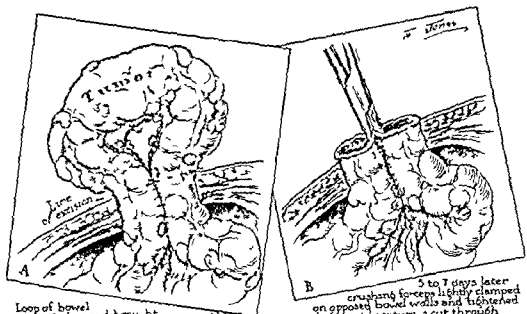


D
Abdominal wound carefully closed in layers

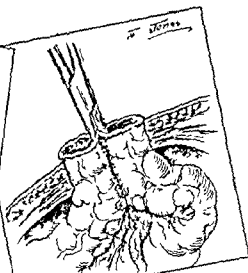
PANCREATIC CYST



PARTIAL RESECTION OF COLON (MIKULICZ)



Loop of bowel
sewed together and brought
out through wound. Note
fixation to peritoneum and
fascia. Loop cut away after
4 to 5 days.



5 to 7 days later
crushing forceps lightly clamped
on opposite bowel walls and tightened
daily until septum is cut through

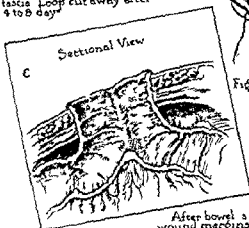
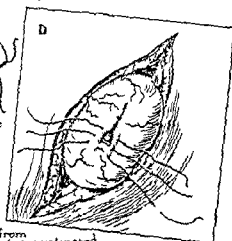


Figure
of B
suture



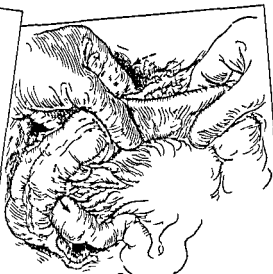
After bowel is freed from
wound margin opening is invaginated
and closed with Lembert's sutures

INTUSSUSCEPTION



1

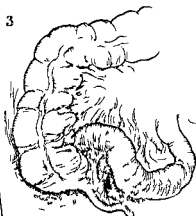
Diagram showing
invagination of ileum
into large bowel



2

Technique of reduction
by pressure upon head
of invaginated portion

3



Reduction
completed



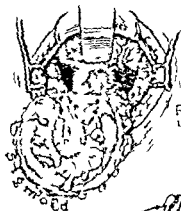
H latestad
suture

4

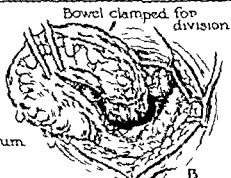
Suture of
distal ileum to asc colon
to prevent recurrence

RESECTION OF THE RECTUM

ABDOMINAL OPERATION

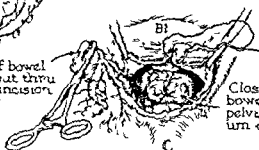


A
Peritoneum incised



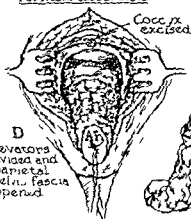
B
Sup. hemorrhoidal art. ligated and cut
Rectum mobilized

Proximal end of bowel to be brought out thru left abdominal incision for colostomy



Closed distal end of bowel deposited in pelvis and peritoneum closed over it

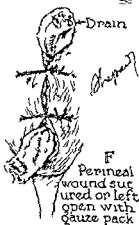
Perineal dissection



D
Levators divided and perineal pouch fascia opened

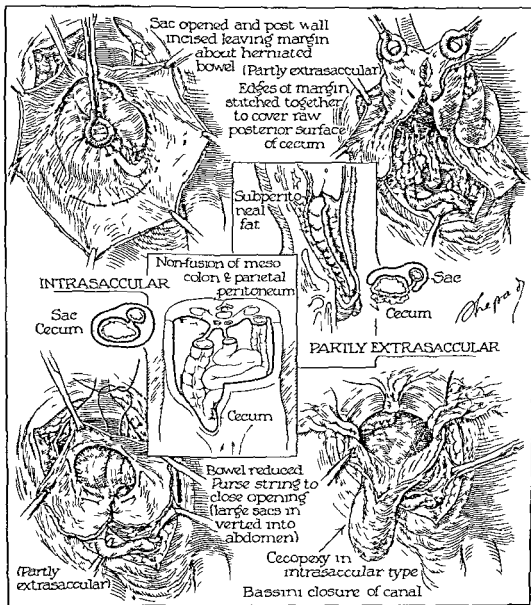


E
Anal end of rectum freed

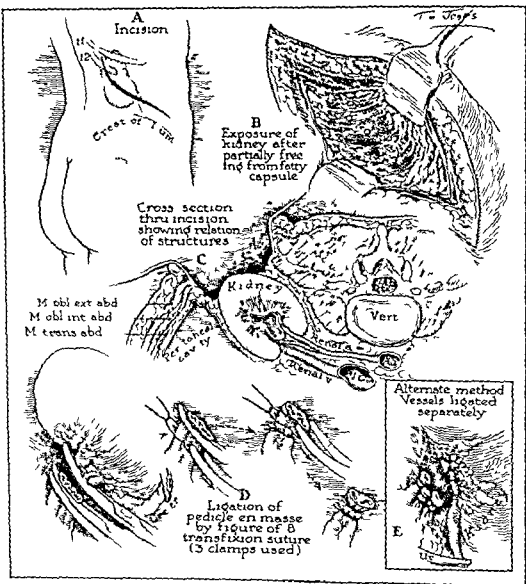


F
Perineal wound sutured on left open with gauze pack

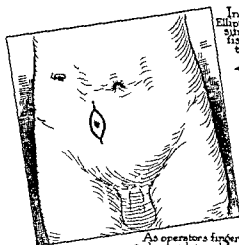
SLIDING HERNIA OF THE CECUM



NEPHRECTOMY

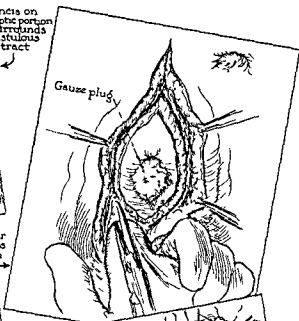


FECAL FISTULA



Incise on
Elliptic portion
surrounds
fistulous
tract

As operator's finger
explores relationships
excision of tract is com-
pleted by scissors →



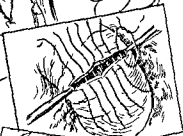
Gauze plug



Neck of tract exposed
Cut away from intestine
along dotted line

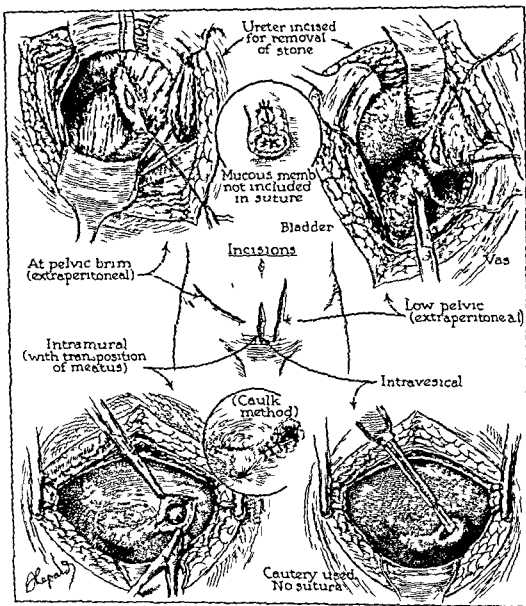


Ford
stitch

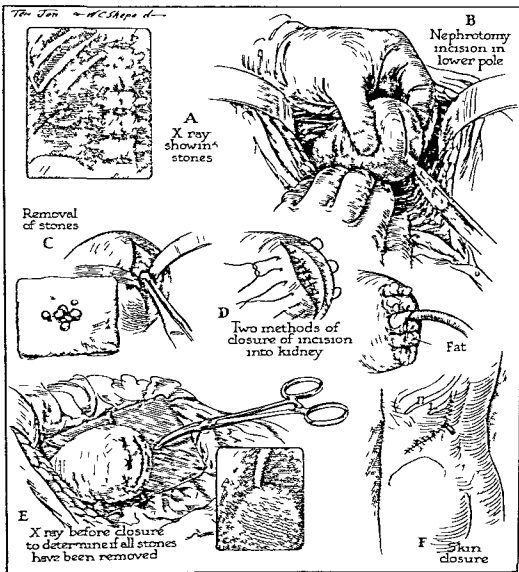


Opening into
intestine closed transversely

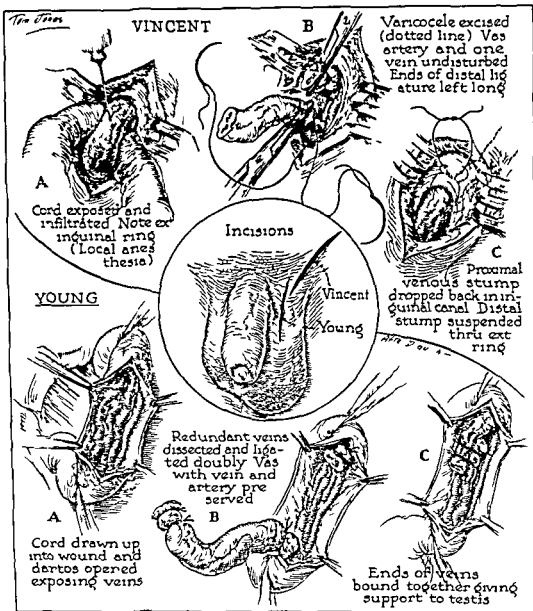
REMOVAL OF LOW URETERAL CALCULUS



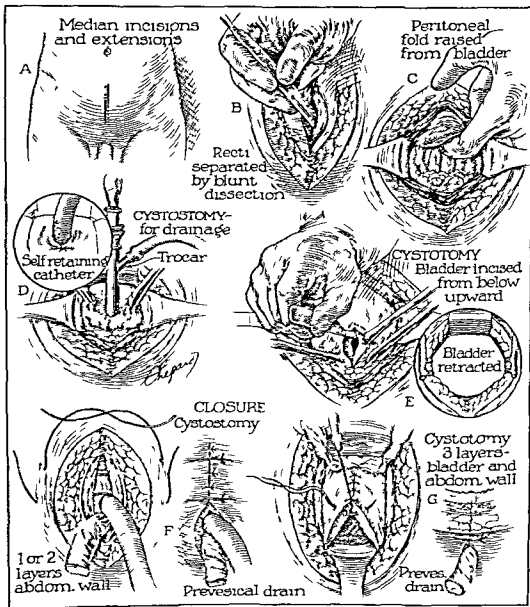
NEPHROTOMY FOR RENAL CALCULI



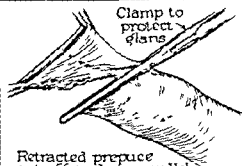
OPERATIONS FOR VARICOCELE (OR VARICOCELECTOMY)



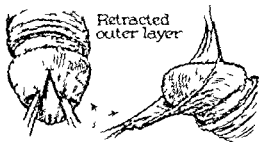
SUPRAPUBIC CYSTOSTOMY AND CYSTOTOMY



CIRCUMCISION



Retracted prepuce cut off in line parallel with corona

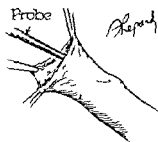


SECOND METHOD

Cut

Adhesive

Dorsal split (Continuous suture of layers)



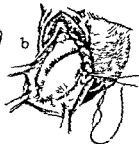
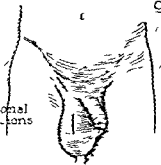
If adherent prepuce separated from glans

HYDROCELE

OPEN OPERATIONS

Tunica trimmed away
Hemostatic suture about
remaining margin

1
Orisonal
incisions



2 WINKELMAN



Tunica turned inside out
and sutured posterior
to cord and testis

3 ANDREWS - Testicle pushed through
small opening high in sac
Sac everted upon cord



4

INJECTION METHOD



Aspiration
of fluid

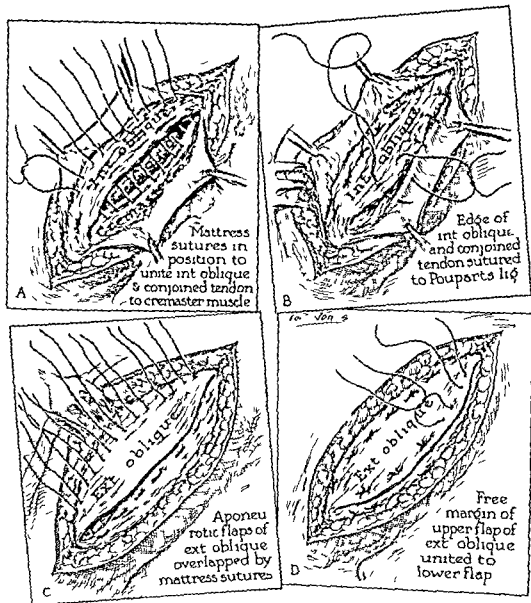


Injection
of irritant

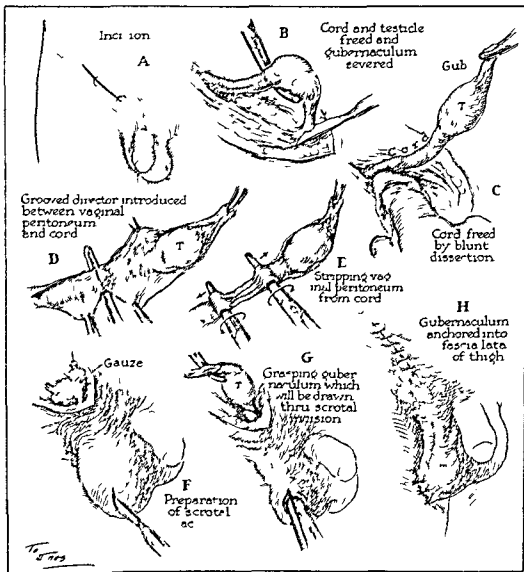


Massage
of scrotum

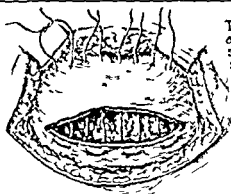
HALSTED OPERATION FOR INDIRECT INGUINAL HERNIA



OPERATION FOR UNDESCENDED TESTIS (MCKENNA)



METHODS OF REPAIR IN LARGE UMBILICAL HERNIA



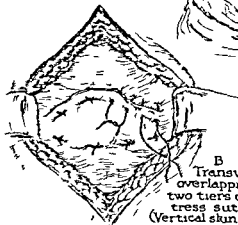
A
Transverse overlapping of
aponeurotic flaps by mattress
sutures. Free edge of upper flap
secured by continuous suture



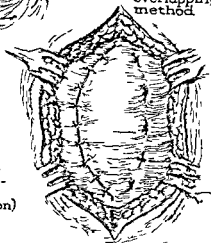
Incisions
Elliptic transverse
Elliptic vertical



C
Lateral
overlapping
method

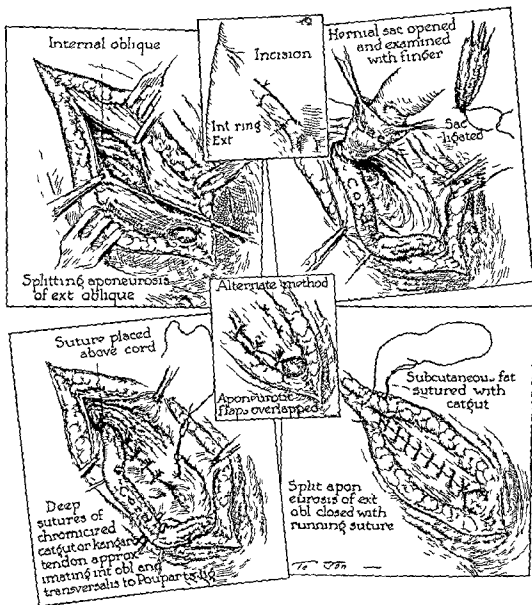


B
Transverse
overlapping by
two tiers of mat-
tress sutures
(Vertical skin incision)

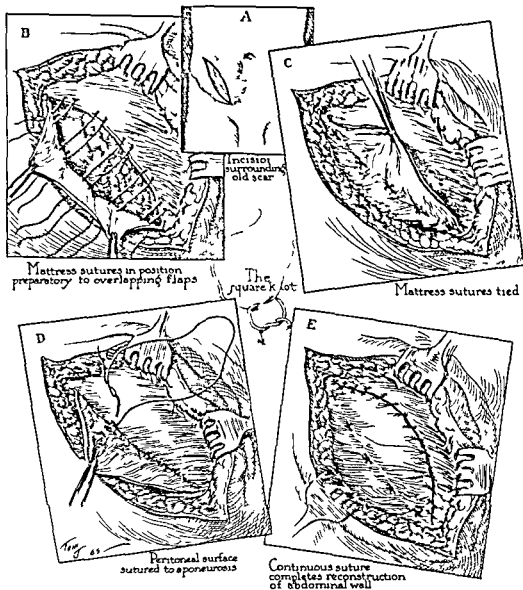


Tom
Jones

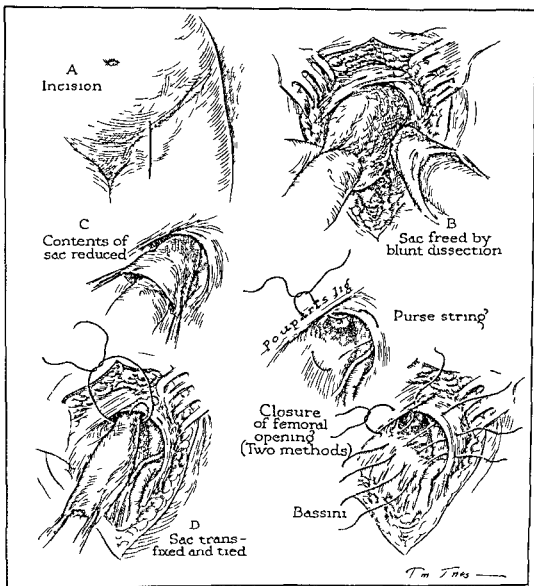
BASSINI OPERATION FOR INDIRECT INGUINAL HERNIA



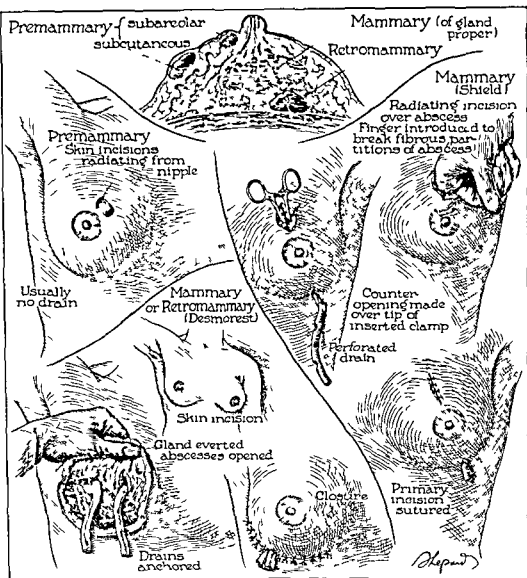
AN OPERATION FOR POSTOPERATIVE VENTRAL HERNIA (JUDD METHOD)



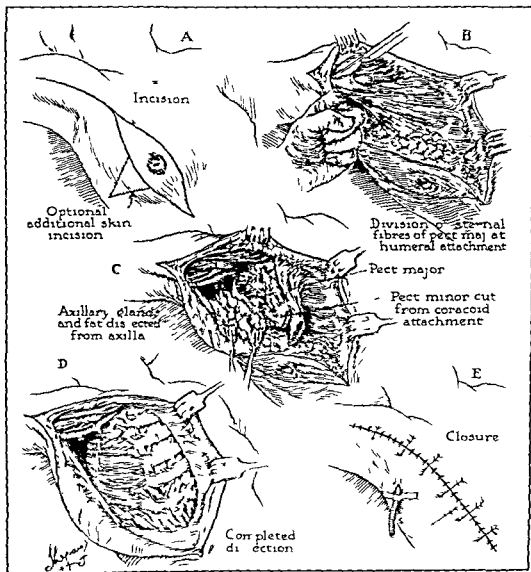
REPAIR OF FEMORAL HERNIA



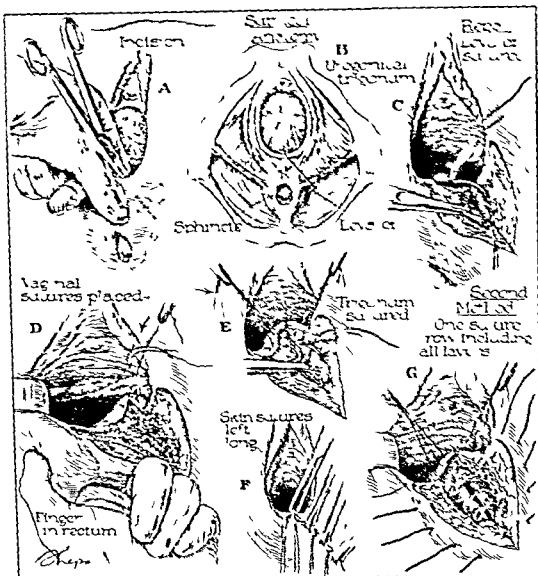
MAMMARY ABSCESS



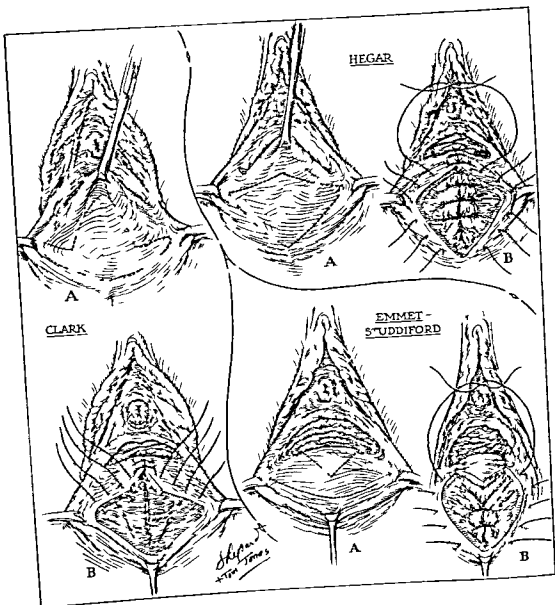
RADICAL AMPUTATION OF THE BREAST



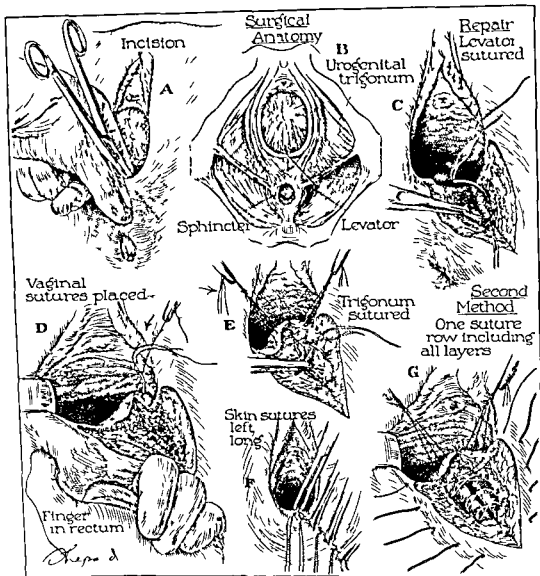
EPISIOTOMY



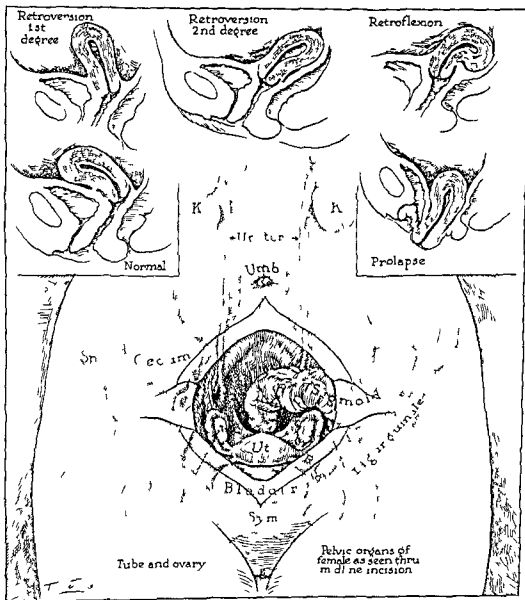
REPAIR OF PERINEUM



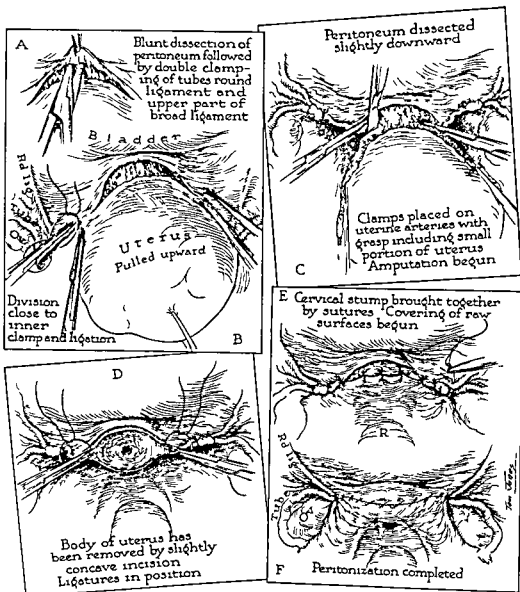
EPISIOTOMY



SURGICAL ANATOMY OF THE UTERUS

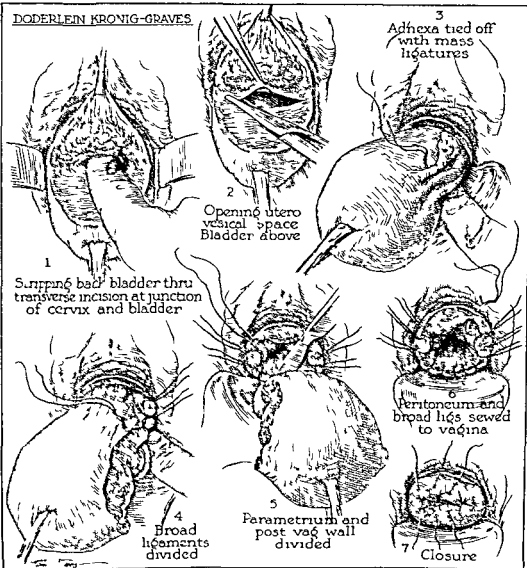


HYSTERECTOMY (CURTIS)



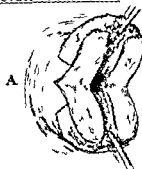
VAGINAL HYSTERECTOMY

DODERLEIN KRONIG-GRAVES



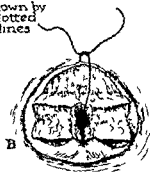
AMPUTATION OF THE CERVIX UTERI

CURTIS SCHROEDER



Cervix split
Portion
removed
shown by
dotted
lines

Raw surfaces
closed by deep
sutures

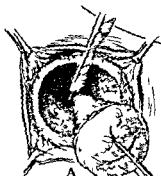


After Cure

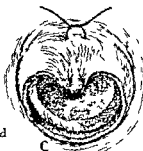


Ant and post
lips united
to mucosa of
cervical canal

STURMDORF



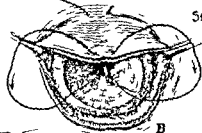
A
Vaginal cuff
elevated Cone
shaped portion excised



Sturmdorf
stitch



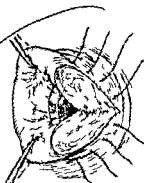
Closure



B

GRAVES EMMET

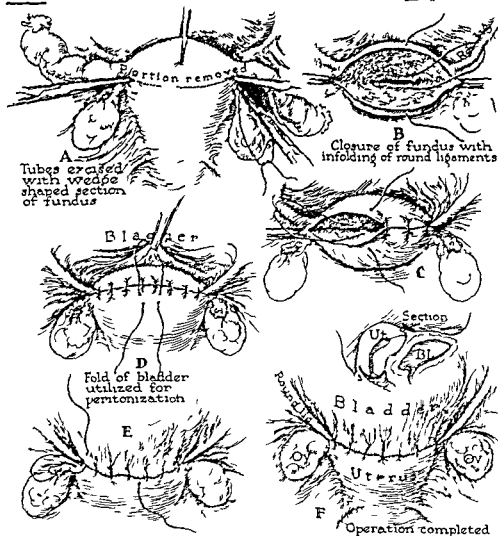
Repair of
cervix



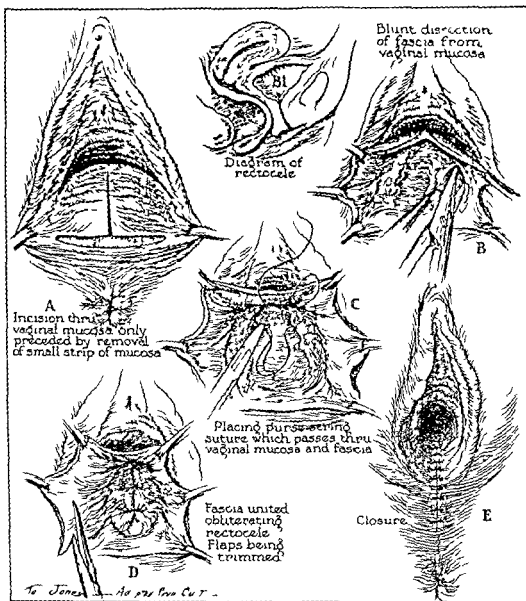
SALPINGECTOMY WITH DEFUNDECTOMY

FALLS

Tom Jones



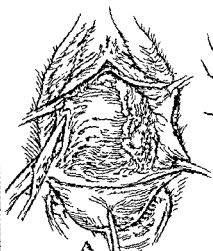
REPAIR OF RECTOCELE



REPAIR OF CYSTOCELE

ADVANCEMENT OPERATION

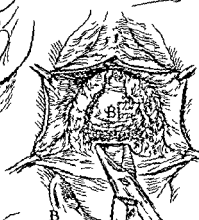
*Adapted from Curtis
to Jones*



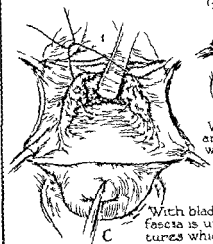
A
Fascia separated
from vaginal flaps



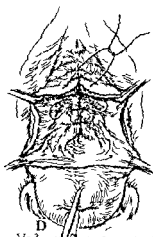
Diagram of
cystocele



B
Bladder freed
by blunt dissection



C
With bladder elevated
fascia is united by su-
tures which enter
uterus

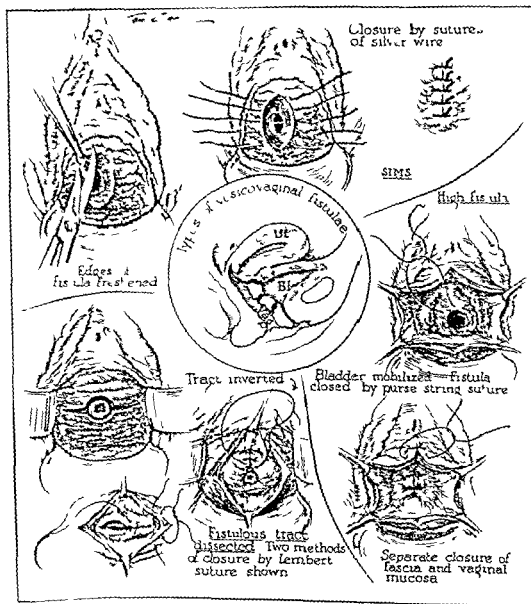


D
Vaginal flaps trimmed
and united by sutures
which grasp under-
lying fascia

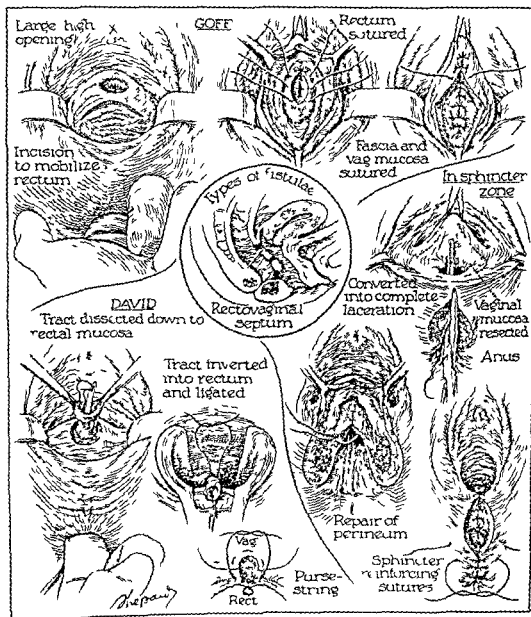


F
Closure

REPAIR OF VESICOVAGINAL FISTULA



RECTOVAGINAL FISTULA



ETHICON SUTURES

STRONG SUPPLE SMOOTH UNIFORM HEAT-STERILIZED



JOHNSON & JOHNSON began producing surgical sutures in 1887. Our experience of more than half a century has led us to the production of what thousands of surgeons in all parts of the world consider the most dependable catgut ever devised—Ethicon Non Boilable Catgut Sutures.

Our scientific staff includes the most capable men available who devote their entire time to experiment and control in our laboratories in the United States, England, and Australia.

Absolute sterilization by heat without impairment of tensile strength is the daily production standard of Ethicon Non Boilable Catgut Sutures. As taken from the sterile tubes, they possess more tensile strength than is required to ligate the largest human blood vessel or to suture the densest human tissue.

Ethicon Non Boilable Catgut Sutures are produced by exclusive procedures from the raw material to the final stage of packaging and inspection in our laboratories. They are ~~supplied~~ smooth and uniform.

INDEX TO ILLUSTRATIONS

	PAGE
Suture Technique (No 1)	1
Suture Technique (No 2)	2
Suture Technique (No 3)	3
Suture Technique (No 4)	4
Closure of Skin Defects	5
Resection for Epithelioma of Lip	6
Operations for Harelip—Single Cleft	7
Skin Grafting—Inlay Grafts	8
Skin Grafting for Burn Contracture	9
Treatment of Burn Contracture of Axilla	10
Skin Grafting—Free Full Thickness Grafts	11
Full Thickness Graft with Sliding Flap	12
Skin Grafting—Split Grafts	13
Delayed Pedicled Flap	14
Skin Grafting—Sieve Graft (No 1)	15
Skin Grafting—Sieve Graft (No 2)	16
Ideal Treatment of Lacerated Wound	17
Immediate Treatment of Crushing Injury of Foot	18
Technique of Nerve Suture	19
Nerve Suture	20
Phrenic Neurectomy	21
Tendon Sutures	22
Tendon Lengthening and Shortening	23
Repair of Recurrent Dislocation of Patella	24
Repair of Fractured Patella	25
Removal of Semilunar Cartilage	26
Operative Treatment of Bunions	27
Operative Treatment of Bunions (No 2)	28
Operation for Congenital Dislocated Hip	29
Surgical Treatment for Paronychia and Felon	30
Amputation of the Digits	31
Amputation of Forearm	32
Amputation for Gangrene of Lower Extremity	33
Thoracoplasty	34
Surgical Treatment of Lung Abscess	35
Surgical Treatment of Acute Empyema	36

INDEX TO ILLUSTRATIONS

	PAGE
Surgical Treatment of Acute Lmpyema	37
Incision and Closure of Wounds	38
Closure of Rectus Incision	39
The Low Midline Incision	40
Paramedian Incision for Laparotomy	41
Abdominal Incisions	42
Operation for Torticollis	43
Subtemporal Decompression	44
Surgical Treatment of Carbuncle	45
Operative Treatment of Pilonidal Sinus	46
Partial Resection of the Tongue	47
Tonsillectomy	48
Thyroidectomy	49
Tracheotomy	50
Scalenus Anticus Syndrome	51
Popliteal Aneurysm	52
Ligation of Varicose Saphenous Vein	53
Ligature Technique	54
Appendectomy	55
Splenectomy	56
Liver Sutures	57
Cholecystostomy	58
Cholecystectomy	59
Operations on Biliary Tract (No. 1)	60
Operations on Biliary Tract (No. 2)	61
Enterostomy	62
End to-End Entero-Enterostomy (Dyas)	63
Gastroduodenostomy (Finney's Technique)	64
Posterior Gastrojejunostomy	65
Gastrostomy (Stamm Method)	66
Partial Resection of Stomach (Polya)	67
Pancreatic Cyst	68
Rammstedt Operation for Pyloric Stenosis	69
Intussusception	70
Partial Resection of Colon (Mikulicz)	71
Sliding Hernia of the Cecum	72

INDEX TO ILLUSTRATIONS

	PAGE
Suture Technique (No 1)	1
Suture Technique (No 2)	2
Suture Technique (No 3)	3
Suture Technique (No 4)	4
Closure of Skin Defects	5
Resection for Epithelioma of Lip	6
Operations for Harelip—Single Cleft	7
Skin Grafting—Inlay Grafts	8
Skin Grafting for Burn Contracture	9
Treatment of Burn Contracture of Axilla	10
Skin Grafting—Free Full Thickness Grafts	11
Full Thickness Graft with Sliding Flap	12
Skin Grafting—Split Grafts	13
Delayed Pedicled Flap	14
Skin Grafting—Sieve Graft (No 1)	15
Skin Grafting—Sieve Graft (No 2)	16
Ideal Treatment of Lacerated Wound	17
Immediate Treatment of Crushing Injury of Foot	18
Technique of Nerve Suture	19
Nerve Suture	20
Phrenic Neurectomy	21
Tendon Sutures	22
Tendon Lengthening and Shortening	23
Repair of Recurrent Dislocation of Patella	24
Repair of Fractured Patella	25
Removal of Semilunar Cartilage	26
Operative Treatment of Bunions	27
Operative Treatment of Bunions (No 2)	28
Operation for Congenital Dislocated Hip	29
Surgical Treatment for Paronychia and Felon	30
Amputation of the Digits	31
Amputation of Forearm	32
Amputation for Gangrene of Lower Extremity	33
Thoracoplasty	34
Surgical Treatment of Lung Abscess	35
Surgical Treatment of Acute Empyema	36

INDEX TO ILLUSTRATIONS

	PAGE
Resection of the Rectum	73
Fecal Fistula	74
Nephrectomy	75
Nephrotomy for Renal Calculi	76
Removal of Low Ureteral Calculus	77
Suprapubic Cystostomy and Cystotomy	78
Operations for Varicocele (or Varicocelectomy)	79
Hydrocele	80
Circumcision	81
Operation for Undescended Testis (McKenna)	82
Halsted Operation for Indirect Inguinal Hernia	83
Bassini Operation for Indirect Inguinal Hernia	84
Methods of Repair in Large Umbilical Hernia	85
Repair of Femoral Hernia	86
An Operation for Postoperative Ventral Hernia (Judd Method)	87
Radical Amputation of the Breast	88
Mammary Abscess	89
Repair of Perineum	90
Episiotomy	91
Surgical Anatomy of the Uterus	92
Hysterectomy (Curtis)	93
Vaginal Hysterectomy	94
Amputation of the Cervix Uteri	95
Salpingectomy with Defundectomy	96
Repair of Rectocele	97
Repair of Cystocele	98
Repair of Vesicovaginal Fistula	99
Rectovaginal Fistula	100

